

## **CBI All in One DC UPS Power Solutions**

CBI All In One UPS Power Solutions combine the requirements for several applications in just one device which can be used as power supply unit, battery charger, battery care module or backup module. The available power is automatically distributed among load and battery, while supplying power to the load always is the first priority. The maximum available current of the load output is two times the value of the device's rated current.

If the device is disconnected from the main power source, the battery will supply the load until the battery voltage reaches 1.5 V per cell. This prevents the battery from deep discharge. CBI devices provide microprocessor controlled battery charging. Using algorithms, the battery's condition will be detected and based on that, an appropriate charging mode is chosen. The real-time diagnostics system will continuously monitor the charging progress and indicate possibly occurring faults such as elements in short circuit, accidental reverse polarity connection or disconnection of the battery by the battery fault LED and a flashing code of the diagnosis LED.

CBI All In One UPS Power Solutions are suitable for open/sealed lead acid-, lead gel- and optionally Ni-Cd batteries. By using the battery-select-jumper, it is possible to set predefined charging curves for those battery types. The available charging options are recovery-, boost- and trickle charge. All CB devices are built in a rugged metal case with a DIN rail mounting bracket.

#### Features:

- · Power supply, battery charger, battery care module and backup module in one device
- Three charging modes
- · Compact, rugged metal case
- Available in 12VDC, 24VDC and 48VDC
- · Suitable for most common battery types
- · Adjustable charging current
- · Easy battery diagnosis and fault identification either by LED or external devices connected to fault
- Status contacts
- High efficiency up to 91% through switching technology
- Several output protection features such as short circuit, overload, deep battery discharge etc.
- · DIN rail mounting
- Small size



Battery Charoing Output

### **Battery Selection Chart**

	Battery type	1.2 Ah	3.2 Ah	7.2 Ah	12 Ah
	Load 1.5 A	20	60	200	400
	Load 3 A	8	30	120	240
в	Load 5 A	3	15	55	100
BUFFERING AINUTE) TIM	Load 7.5 A	2	10	30	60
Ë	Load 10 A	-	7	20	45
82	Load 12 A	-	3	12	30
	Load 15 A	-	-	9	20
	Load 20 A	-	-	7	13

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www.adelsystem.com

#### All In One: Uninterruptible Power Supply Output Vdc

Thank you for having chosen one of our products for your work

We are certain that it will give the utmost satisfaction and be a notable help on the job

#### General Description

Thanks to the All In One units (DC-UPS), it will be possible to optimize power management. The available power is automatically allocated between load and battery, supplying power to the load is the first priority. of the unit thus it is not necessary to double the nower, because also the power going to the battery will go to the load if the load so requires. The maximum available current on the load output is 2 times the value of the device rated current In. We call "Battery Care" the concept base on algorithms that implement rapid and automatic charging, battery charge optimization during time, flat batteries recovery and real time diagnostic during installation and operation. The Real Time Auto-diagnostic system monitoring battery faults such as, battery Sulfated, elements in short

circuit, accidental reverse polarity connection, disconnection of the battery, they can easily be detected and removed by help of Blink Code of Diagnosis Led; during the installation and after sell. The continuous monitoring of battery efficiency, reduces battery damage risk and allows a safe operation in permanent connection. Each device is suited for all battery types, by means of jumpers it is possible setting predefined curves for Open Lead Acid Sealed Lead Acid. Gel. Ni-Cd Ni-Mh(option). Lithium(option). They are programmed for two charging levels, boost and charge, but they can be changed to single charging level by the user. A rugged casino with bracket for DIN rail mounting provide IP20 protection degree. They are extremely compact and cost-effective.

#### Main Characteristics

- Input: Single-phase 115-230-277 Vac
- Output Load: power supply: 24 Vdc: 3 5 10 20 A: 12 Vdc: 3 6 10 35 A 48 Vdc: 5 - 10 A
- Output Battery: charging 24 Vdc: 3 - 5 - 10 - 20 A: 12 Vdc: 3 - 6 - 10 - 35 A: 48 Vdc: 5 - 10 A
- Suited for the following battery types: Open Lead Acid Sealed Lead Acid. lead Gel. Ni-Cd. Ni-Mh and Lithium
- Automatic diagnostic of battery status. Charging curve IUoUO, constant voltage and constant current Battery Life Test function (Battery Care)
- Switching technology
- Four charging levels: Boost, Absorption, Trickle and Recovery
- Protected against short circuit. Over Load and inverted polarity
- Signal output (contact free) for discharged or damaged battery
- Signal output (contact free) for mains or Back-UP
- Protection degree IP20 DIN rail: Space saving

#### Safety and warning notes

WARNING - Explosion Hazard Do not disconnect Equipment unless power has been switched off or the area is known to be non-bazardous



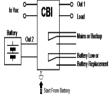
WARNING - Explosion Hazard, Substitution of components may impair suitability for class | Division 2 WARNING - Switch off the system before connecting the module. Never work on the machine when it is live. The device must be installed in according with UI 508. The device must have a suitable isolating facility outside the power supply unit via which can be switched to idle. Danger of fatal Injury!

#### Connection (terminal and wiring):

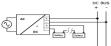
Cable Connection: The following cable cross-sections may be used:

Solid (mm <sup>2</sup> )	Stranded (mm <sup>2</sup> )	AWG	Torque (Nm)	Stripping Length	All In One (Size)	1 Phase L N PE Input AC	1 Phase L N PE Input AC
In: 0.2 - 2.5	0.2 - 2.5	24 - 14	0.5 – 0.6 Nm	7 mm	Size 1 and 2		
4.0	6.0	30 - 10	0.8 – 1.0 Nm	7 mm	Size 3	70 10 1	
0.2 - 2.5	0.2 – 2.5		0.5 – 0.6 Nm	7 mm	Size 1 and 2		~ [* ] ·
Out: 4.0	6.0	30 - 10	0.8 – 1.0 Nm	7 mm	Size 3		
Signal: 0.2 - 2.5	0.2 – 2.5	24 - 14	0.5 – 0.6 Nm	7 mm	All types	_ «	

The connection is made by the screw type 2.5 mm<sup>2</sup> or 4.0 mm<sup>2</sup> (CBI2420A - CBI1235A) terminal blocks. Use only copper cables that are designed for operating temperatures of > 75 °C. Wiring terminal shall be marked to indicate the proper connection for the power supply.



#### Output Power connections:



**THNH** 

#### Normal connection

Typical application for All In One device, one output for Load "DC Bus", one Input/Output for connection to the battery. N°1 battery (12 Vdc) for CBI12xx;

N°2 battery (12 Vdc) connected in Series for CBI24xx; N°4 battery (12 Vdc) connected in Series for CBI48xx;

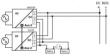
#### DC BUS Parallel connection "Redundancy"

Power supplies can be paralleled for 1+1 redundancy to obtain a higher system availability. Redundant systems require a certain amount of extra power to support the load in case one power supply unit fails. The simplets way is to put two CBI in parallel. In case one power supply unit fails, the other one is automatically able to support the load ournent without any interruption. This simple way to build a redundant system has two maior disadvantages:

- The faulty power supply can not be recognized.

- The Diagnosis LED will give the informations about the status of the Load and the Battery (see Display Signals for

more data). It does not cover failures such as an internal short circuit in the secondary side of the power supply. In such a - virtually nearly impossible - case, the defective unit becomes a load for the other power supplies and the output vottage can not be maintained any more. This can only be avoided by utilizing decoupling diodes which are included in the Redundancy Module MF220. Recommendiators for building redundant power systems: a) Use separate input fuses for each CBL b) Monitor the individual CBI units by three LED. Each unit has two relay. Mains or backup and Low Battery or Battery Replacement (Lawity situation). This enture reports a faulty unit, see Aleva Contact Rating for any technical detail. c) When possible, connect each power supply to different phases or circuits.



a) Use separate input fuses for each CBI.

#### Parallel connection "Double Power"

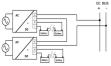
Power supplies can be paralleled for 1+1-2 parallel to obtain a the double power of a single unit. The possibility to put in parallel connection it is only in SIZE 3 devices in the specific PV versori (i.e. G20422AP). It is the reach the sum of the current at the same output voltage. It is necessary to use a The communication produce in SUE 400 and C and C

b) The connections does not provide any preparation, only the connection to the RJ45 cable also with the two devices already powerk, make sure that the two CBI have the same setting (batter) type, charging level current, the result of the themselves one as the Master (which give you all the visual signals) and one as the Slave (disprosis LED elvery (b) without a default choice.

c) Use the alarm contacts of two devices in parallel.

For Start Battery without mains voltage, push start button on both units.

The models with software for parallel ("P" suffix) can be used alone simply not connecting with each other with the RJ45 cable.



#### Series connection:

a) It is possible to connect as many units in series as needed, providing the sum of the output voltage does not exceed 150% (cb. b) Voltages with a potential above 60% can end the output is required as the potential above 60% can be installed with a protection against tooching. (c) for serial operation use power supplies of the same type. (d) Earthford the output is required when the sum of the output voltage is above 60% cc. e) Keep an installation clearance of 10 mm politage (eg, itom a descheration potent auguites and avoid installing the notage (eg, itom a descheration potent auguites) with the applied to the output terminate.

#### Output Load (Mains input ON)

The output Load in normal mode, Mains Input Vac Voltage present, follow the charging battery dc output voltage. The minimum and maximum range stabilized are the following:

CBI12xx:11 - 14,4 Vdc; (Without battery connected out. Voltage fixed at 12Vdc)

CBI24xx:22 - 28.8 Vdc; (Without battery connected out. Voltage fixed at 24Vdc)

CBI48xx:44 - 57.6 Vdc; (Without battery connected out. Voltage fixed at 48Vdc)

Thanks to the All In One units, it will be possible to manage the power. The available power, is automatically allocated between load and battery: supplying power to the load is the first priority of the unit; thus it is not necessary to double the power, and also the power available for the battery will go to the load if the load requires so:

in "Power Boost Mode" the maximum current on the load output is the 2 times the rated current 2 x ln (lload = ln+ lbatt) in continuous operation and 3 times the rated current 3 x ln (lload = 2ln+ lbatt) for 4 seconds; after this parameter the devices is electrically protected against overload and short circuit.

 In "Power Boost Mode", if the current of the battery generate current to the load for a time more than 4 minutes, the device give message (8 Blink), consequently means that the battery it is going to unloading.

If the Mains Input Voltage fall below a Threshold level (50% of the Typ. Vac input) the battery it is immediately connected to the Output Load, without any interruption.

voltage dips: In this situation the voltage in the output load it is the same of the battery.

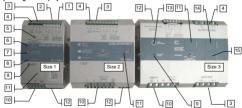
To Avoid deep battery discharge, the battery will supply the load until battery voltage reaches 1.5 V/cell. Below this level the device automatically switches off to prevent Deep discharge and battery damage.

#### Output Load In Buffer Mode (Mains Input OFF)

Some example of buffering time depending on LOAD Output in function to the Ah of the battery.

Buffering Time	BATT1.2 Ah	BATT 3 Ah	BATT7.2 Ah	BATT12 Ah	BATT100 Ah
Load 1.5 A	20 min	60 min	200 min	400 min	/
Load 3 A	8 min	30 min	120 min	240 min	1
Load 5 A	3 min	15 min	55 min	100 min	/
Load 7.5 A	2 min	10 min	30 min	60 min	/
Load 10 A	No	7 min	20 min	45 min	20 h
Load 12 A	No	3 min	12 min	30 min	600 min
Load 15 A	No	No	9 min	20 min	400 min
Load 20 A	No	No	7 min	13 min	240 min

#### Operating and Display Element:



#### No. 10: Input AC Port pin. L - N:

lea ő

1 Phase Switching Power Supplies L, N, PE @.

Size 2 and Size 3 BRIDGE ONLY for input 115 Vac, and connect L, N, PE @.

#### No. 3: Battery Connection Port:

Connect the battery between pin. 3 (-) and 4 (+) One battery (12 Vdc) for CBI12xx; Two battery (12 Vdc) connected in Series for CBI24xx; Four battery (12 Vdc) connected in Series for CBI48xx;

#### No. 4: Output Load:

Connect this Output to the load 1 (-). 2 (+).

#### No. 1, 2 Signal Ports (Output Isolated):

Connections for.

No. 2: Mains/Back Up: Input Mains On/Off. Contact: 5,6,7

No. 1: Low Battery, Fault connections systems, Battery replacement. Contact: 8,9,10

#### Relay Contact Rating:

Max.DC1: 30 Vdc 1 A; AC1: 60 Vac 1A : Resistive load (EN 60947-4-1) Min.1mA at 5 Vdc: Min. permissive load

Signal Output port true table:			2 - Led N°6 Back-Up	Port N°1 - Led N°7 Fault Battery		
		5-6 Closed	5-7 Closed	8-9 Closed (OK)	8-10 Closed	
Mains Input Vac	ON	Ied off		Ied off		
mains input vac	OFF		I - led On (1)	Ied off		
The battery in	YES		Ied On		Ied On	
BackUP it is less than 30% cap?	NO		Ied On	Ied off		
Battery or system	YES	Ied off			<ul> <li>led On (2)</li> </ul>	
Fault?	NÖ	Ied off		Ied off		

Note:

(1) For better efficiency of the system, filter relay Mains/Back up with a delay of at least 5 seconds before give alarm Mains Lost, example: connection to PLC.

(2) See Diagnosis Led

#### No. 6, 7 and 8 Display Signals

No.6: Led Mains/Back Up: Input Mains On/Off

No.7: Led Low Battery(capacity less than 30%), Fault connections systems, Battery replacement.

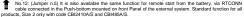
No.8: Led Battery charge mode,

Led Diagnosis. Diagnosis of the system through "blinking code" signal

Monitoring Control Chart:	State	LED Diagnosis (No.8)	LED Battery Fault (No.7)
Charging	Trickle	1 Blink/sec	OFF
Type	Boost	2 Blink/sec	OFF
	Recovery	5 Blink/sec	OFF
	Reverse polarity or high battery Voltage (over 32.5Vdc for CBI24xxA)	1 Blink/pause J	ON
	Battery No connected	2 Blink/pause JI	ON
	Element in Short Circuit	3 Blink/pause JUL	ON
	Over Load or short circuit on the load	4 Blink/pause JIII	ON
	Bad battery; Internal impedance Bad or Bad battery wire connection	5 Blink/pause JUUL_	ON
<u> </u>	Life test not possible	6 Blink/pause JUUL	ON
System	Bad thermal sensor	7 Blink/pause	ON
Diagnosis	Boost condition; battery discharge after 4 min. of overload.	8 Blink/pause JUUL	ON
Diagnosis	Internal fault	9 Blink/pause JUUL	ON
	Low battery (under 18.5Vdc for CBI24xxA) Only if started from battery, no Mains input. Form Jumper N°5 or Push Bottom	10 Blink/pause JUUL_	ON
	CAN bus error	11 Blink/pause JUUL	
	Life test not possible; Parallel mode on Slave Device	12 Blink/pause JUUL	
	Bad battery wire connection; Parallel mode on Slave Device	13 Blink/pause JUUL_	
	Boost condition; battery discharge after 4 min. of overload; Parallel mode on Slave Device	15 Blink/pause JUUL_	

#### No. 9, 12: Start from Battery, No Mains Vac

No. 9: Push-bottom, for 3 sec., in the front panel for switch ON the system without the "Mains input Vac" but only the battery connected. (Not present in CBI2410XX and CBI485XX)



#### No. 12: Battery Management Configurations

Preliminary Operations: One device for all battery types.

Completely automatic, all devices are suitable to charge most batteries types thank to User Selectable charging curves. They can charge open lead acid, sealed lead acid, Gel, Ni-CA Ni-MH and Lithium batteries. It is possible to change or add other charging curves connecting the device to a portable PC.

Caution: Switch off the system before Setting the jumper. Only jumper in position 5 Refresh ON/OFF state with Power. For Battery Type Selection always refer to the data of the manufacturer of the batteries

Battery Type Selection	Jumper Position (Size 1 and Size 3)	Jumper Position (Size 2)	Trickle/Float charge (Volt/Cell)	Fast/Bulk charge (Volt/Cell)			
Open Lead		1204	2.23	2.40			
VRLA (AGM) Low			2.25	2.40			
VRLA (AGM) High	12,47,5 0		2.27	2.40			
Gel Battery			2.30	2.40			
ACELSYSTEIN www.additystern.com wasterna.y CBIxxxxA (N-Co)	Side Label for NiC		der the following table t	for Battery Type			
Battery Type Selection (NiCd)	Jumper Position (Size 1 and Size 3)	Jumper Position (Size 2)	Trickle/Float charge (Volt/Cell)	Fast/Bulk charge (Volt/Cell)			
Open Lead		1204	2.23	2.40			
VRLA (AGM) Low			2.25	2.40			
Gel Battery			2.30	2.40			
(1) NiCd – NiMh			10% Imax Trimmer	1.70 - (12V) 10 cells 1.55 - (24V) 20 cells			
(2) Lithium		1234 6	Battery disconnected	3,65 V - (12V) 4 cells 3,65 V - (24V) 8 cells			
Functional Setting				unction			
Battery Life test ON		1100	Jumper present: Life test enabled.				
Fast Charge Enable		1204 6	Jumper present: fast charge enabled				
"Battery Start" (without Input Mains) (3)			Push-bottom mount external system.	connection to external ed on front Panel of the			
Fast Recovery Charge (4)		Not available	United fair system: Jumper present: Fast Recovery Charge, enabled only for Size 3. Possibility to recharge the battery also when the voltage is close to Zero with the maximum power of the device. To be careful, the Load Output voltage follow the voltage of the battery.				

Notice:

- 1 Be careful, in NGC+NMI (option to be defined by Order), the VRLA (AGM) High charging curve is deleted. End-of-charge determined by negative AV detection to battery votage (FeW/KeII). It no negative AV but only a "flat" profile is detected fast charge is terminated after 10 min. General end-of-charge timeout set to 16 hours. Trickle charge current is regulated at 10% of max current corresponding to timmer position. In order to detect end-of-charge negative AV, charging current must be set at least at 30% of nominal battery capacity (0,3 C); with lower values of charging current negative AV detection is not quaranteed.
- 2 Be careful, in Lithium (option to be defined by Order), the VRLA (AGM) High charging curve is deleted. In Float charge, with battery disconnected, the voltage on OUT LOAD is always 14,6V (12V) or 29,2V (24V).
- In Float charge, with battery disconnected, the voltage on OUT LOAD is always 14,6V (12V) or 29,2V (24V). 3 Don't leave the jumper in position 5: penalty discharge in Back up mode completely the battery close to Zero.
- For Size 2: must be require CBI2410A/S or CBI485A/S ( /S means start with battery functions, otherwise only start with Input Mains)
- 4 Jumper selection n.7 is available only on Size 3

#### No. 5: Charging Level Current:



It is possible set the max recharging current for the batteries by trimmer (Charging Level). The current adjustment goes from 20% + 100% of In. Set the maximum charging current between 10% and 20% of the battery capacity.

#### No. 11: Auxiliary Output

RJ 45 behind the label remove the window label to find the connector,

- It is possible connect:
  - Temperature sensor, for ambient temperature charging compensation. With this it is possible to active the specifications of the EN54-4 firing norm.
  - Connection for external display to remote N
    <sup>o</sup> 3 led of the internal device.



This features are not available for the NiCd/Lithium models.

#### No. 13: Buffering Time Setting

On models Size 3 it is possible to set a buffering time. It can be selected by setting the desired value on the rotary switch 13. Buffering time is initiated when the mains is switched OFF. The LOAD output will be ON for the selected time.

Switch position	0	1	2	3	4	5	6	7	8	9
Buffering Time (min.)	80	0.5	2	5	10	15	20	30	45	60

If the switch is in position 0, the LOAD output will be in ON state until the battery it is completed discharged. Anyway to prevent damage risks, the unit disconnects the batteries when a minimum voltage level is reached.

Units Size 1 -2 do not allow user setting of a buffering time. The LOAD output will be in ON state until the battery it is completed discharged. It is however possible to request factory customized versions with specific buffering time setting.

#### No. 14: Auxiliary Output "Aux 2"

Present only in CBI2420A and CBI1235A it is provided of CAN2.0A connection. Connection for external Intelligent display.

#### No. 15: Auxiliary Output "Aux 3"

Present only in CBI2420A and CBI1235A : Not used.

#### Battery Care

The Battery Care philosophy is base on algorithms that implement rapid and automatic charging, battery charge optimization during time, list batteres recovery and real time diagnostic during installation and operation. The Real Time Auto-darpostic system, monitoring battery faults such as, elements in short circuit, accidental revenue polarity locit during the installation and attere able. Each divors is suited or all battery types, by means of jumpers I is possible setting predefined curves for Open Lead Acid, Sealed Lead Acid, Gel, N-Cd(option), Liftum(option). They guarantees battery reliability in the by continuously testing the internal impedance status, avoids any possible risk of damages and grant also a permanent, initiable and safe connection of the battery to the power supply. The system, frough a batters or batteries with a bitor-circuid element.

Battery Test: Automatic. Every 60 sec. check battery connection. Every 220 minute in trickle charge, make the test of the battery efficiency. The fault is signalized with relay commutation and diagnosis led blinking.

#### Diagnostic Type Checks:

#### Check for accidental disconnection of the battery cables:

All In One detects accidental disconnection and immediately switched off the output power.

#### Battery not connected:

If the battery is not connected no output power.

#### Test of quality wire connections:

During trickle charge the quality (resistance) on the battery connection is checked every 20 sec. This to detect if the cable connection has been properly made.

#### Battery in Open Circuit or Sulphated:

Every 220 minute. All In One tests of internal impedance, in trickle charging mode.

#### Reverse Polarity check:

If the battery it is connected with inverted polarity, All In One is automatically protected.

#### Test of battery voltage connections:

Appropriate voltage check, to prevent connection of wrong battery types, more or less than the nominal voltage.

#### End of Charge check

When the battery it is completely full, the device automatically switch in trickle charging mode.

#### Check for Battery Cells in short circuit

Thanks to specific algorithms of evaluation, the CBs recognize batteries with cells in internal short circuit.

In trickle charge every 2 hours test of element in short circuit.

#### Diagnosis of battery and device

All CBI devices support the user during installation and operation. A Blink code of Diagnosis Led allows to discriminate among various possible faults.

Error conditions, "LED Battery Fault" ON and "LED Diagnosis" blinking with sequence; see Display Signal section.

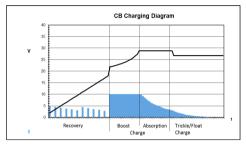
#### **Charging Curve**

Automatic multi-stage operation and real time diagnostic allows fast recharge and recovery of deep discharged batteries, adding value and reliability to the system hosting the CBI device. The type of charging is Voltages stabilized and Current stabilized IUoUo.

Three charging modes are identified by a flashing code on a Diagnosis LED.

To maintain the Output Load in lower Voltage state, don't put jumper in position 5, in this case no boost charge but only Float charge.

	State	Diagnosis LED	Battery Fault LED
	Trickle	1 Blink/sec	OFF
Charging Type	Boost	2 Blink/sec	OFF
	Recovery	5 Blink/sec	OFF



#### **Compensation Recharges in temperature**

(For SIZE 2: CBI2410 and CBI485 require /ARJ code)

Connecting to RJ45 Auxiliary Output the cable RJTEMP (supplied separately), the CBI will vary the voltage of battery charging depending on the temperature:

Fast Charge	Trickle charge
+/-5mV/°C x n. of Cells from -8°C to +60°C	+/-3mV/°C x n. of Cells from -20°C to +60°C
+140mV/Cell ÷ -200mV/Cell compared to the value	+120mV/Cell ÷ -120mV/Cell compared to the value
at 20°C	at 20°C

If the temperature is less than -20°C or greater than +60°C alarm is signalled with code 7 blink.

The sensor place on cable RJTEMP must be applied on the battery.

#### **Protection Features**

On the primary side: the device is equipped whit an internally fuse. If the internal fuse is activated, it is most probable that there is a fault in the device. If happen, the device must be checked in the factory.

On the secondary side Battery and load: The device is electrically protected against short circuits and overload. Inversion polarity: the module it is automatically protected against inversion of battery polarity and connection of load inverted.

Over current and output short circuit: the unit limits the output current (see the technical data).

Deep discharge : not possible. The unit disconnects the battery when a minimum voltage level is reached.

#### Thermal behaviour

Surcounding air temperature 90°C. For ambient temperature of over 50°C, the output current must be reduced by 2.5% per °C. Max 70°C At the temperature of 70°C the output current will be 50% of in. The equipment does not switch off in case of ambient temperature above 70°C or themail overload. The devices are protected for Over temperature conditions "worst case"; in this situations the device Shut-down the output and automatic restart when temperature inside fall.

#### Standards and Certification

Electrical Safety: Asambling diverse: UL508, IEC/EN 806950 (VDE 0805) and EN 50178 (VDE 0160). Installation according: IEC/EN 80696. INST Comparison according: IEC/EN 80696-1 and PELV EN 60204-1. Double or reinforced insulation. EN 61000-42, EN 61000-43, EN 61000-44. EN 61000-45. EN 61000-42, EN 61000-53, EN 61000-32 (see data sheet for each device) Safety of Electrical Expirement Machines: EN 6200-41. EN 6100-54. EN 61000-53, EN 61000-32 (see data sheet for each device) Safety of Electrical Expirement Machines: EN 6202-41. EV 6100-62 (En ank in According to EMC 2004/109EC and Low votage directive 200695/EEC The In According to LI 1238 and EAS 4222.8 Y 107.2

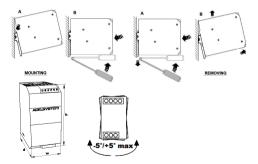
#### Norms and Certifications

In Conformity to: IEC/EN 60335-2-29 Battery chargers; EN60950 / UL1950; Electrical safety EN54-4 Fire Detection and fire alarm systems; 89/330/EEC EMC Directive; 2008/95/EC (Low Voltage); DIN41773 (Charging cycle); Emission: IEC 61006-64; Immunity: IEC 61000-62. CE.

#### Rail Mounting:



All modules must have a minimum vertical and horizontal distance of 10 cm to this power supply in order to guarantee sufficient auto convection. Depending on the ambient temperature and load of the device, the temperature of the housing can become very high!



# ADELSVSTEM

Ghi AllingNE         FUNC         FUNC         FUNC         FUNC         FUNC         FUNC           Call AllingNE         Non-         Parter         Parter        Parter         Parter	ADELSYSTEM										www.adelsystem.com		
Processing	CBI - All in ONE	12Vdc					24Vdc						
AlternationNormal <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>													
ChirolamChirol		CBI123A	CBI126A	CBI1210A	CBI1235A	CBI243A	CBI245A	CBI2410A	CBI2420A	CBI485A	CBI4810A		
NameN		115 020 0771/00	115 000 077\/co	115 000 077\/00	115/000.077\/00	115 020 077\/00	115 020 077\/co	115/000.077//00	115 / 000 077\/00	115 ( 330 ) 377\/00	115/020 077\/00		
And ControlAnd Co													
Randombond Control <t< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-												
Link of part													
Name <t< td=""><td></td><td>2.8 – 1.3A</td><td>2.8 – 1.3A</td><td>2.8 – 1.3A</td><td>8.0 - 4.2A</td><td>2.8 – 1.3A</td><td>2.8 – 1.3A</td><td>3.3 – 2.2A</td><td>8.0 – 4.2A</td><td>3.3 – 2.2A</td><td>8.0 - 4.2A</td></t<>		2.8 – 1.3A	2.8 – 1.3A	2.8 – 1.3A	8.0 - 4.2A	2.8 – 1.3A	2.8 – 1.3A	3.3 – 2.2A	8.0 – 4.2A	3.3 – 2.2A	8.0 - 4.2A		
SeriesSeri	Internal Fuse / Fusibile Interno (non sostituibile)	4A					4A	6.3A			10A		
Shore <t< td=""><td></td><td>10A</td><td>10A</td><td>10A</td><td>16A</td><td>10A</td><td>10A</td><td>16A</td><td>16A</td><td>16A</td><td>16A</td></t<>		10A	10A	10A	16A	10A	10A	16A	16A	16A	16A		
Matche in the interpretained of the interpretaine		12)/dc 34	12\/dc6A	12\/dc 10.4	12)/dc 35A	24\/dc 3A	24\/dc 54	24\/dc 10A	24\/dc 20A	48\/dc 54	48\/dc 10A		
Name11 <td></td> <td>3A</td> <td></td> <td></td> <td></td> <td></td> <td>5A</td> <td></td> <td></td> <td></td> <td></td>		3A					5A						
ResultRes <t< td=""><td></td><td>15</td><td>18</td><td>25</td><td></td><td>18</td><td>25</td><td>48</td><td>68</td><td>48</td><td>68</td></t<>		15	18	25		18	25	48	68	48	68		
mainspace		No	No	No	No		No	No	No	110	No		
SelectroneNNN <th< td=""><td></td><td>≥ 89%</td><td></td><td></td><td></td><td></td><td></td><td>≥ 83%</td><td>&gt; 90%</td><td></td><td></td></th<>		≥ 89%						≥ 83%	> 90%				
Schwarz ConstraintSchwarz C		Yes						Yes	Yes				
MathemationNNN <th< td=""><td>· · · · · · · · · · · · · · · · · · ·</td><td>Yes (Typ. 35Vdc)</td><td></td><td></td><td></td><td></td><td></td><td>Yes (Typ. 35Vdc)</td><td></td><td></td><td>100</td></th<>	· · · · · · · · · · · · · · · · · · ·	Yes (Typ. 35Vdc)						Yes (Typ. 35Vdc)			100		
<table-container>MarchellMarch</table-container>	• • •	Yes											
NameN		Yes											
SectorSect	· · · · · · · · · · · · · · · · · · ·	Yes by Jumper	, ,			, ,		Yes by Jumper	Yes by Jumper	, ,			
MathematicalName </td <td></td> <td>Yes</td> <td>Yes</td> <td>res</td> <td>Yes</td> <td>res</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td>		Yes	Yes	res	Yes	res	Yes	Yes	Yes	Yes	Yes		
Name		10 – 14.4Vdc (17Vdc for Ni-Cd)	10 - 14.4Vdc (17Vdc for Ni-Cd)	10 - 14.4Vdc (17Vdc for Ni-Cd)	10 - 14.4Vdc (17Vdc for Ni-Cd)	22 - 28.8Vdc (31Vdc for Ni-Cd)	22 - 28.8Vdc (31Vdc for Ni-Cd)	22 - 28.8Vdc (31Vdc for Ni-Cd)	22 - 28.8Vdc (31Vdc for Ni-Cd)	44 – 57.6Vdc	44 – 57.6Vdc		
RendenciantS.													
March ConstraintNo.	Continuous current (without battery) Iload = In	3A	6A	10A	35A	3A	5A	10A	20A	*	10A		
Random densitySector		6A				#* ·		2011					
<table-container>Anamembrane Constraint of any any straint of any any any any any any any any any any</table-container>													
<table-container>MathemName<t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></table-container>													
<table-container>Marche Martine Martin</table-container>					,			, , ,	,	, , , , , , , , , , , , , , , , , , , ,			
Knither ControlContr	Protections against total discharge	9 – 10 Vdc batt	9 – 10 Vdc batt	9 – 10 Vdc batt	9 – 10 Vdc batt	19 – 20 Vdc batt	19 – 20 Vdc batt	19 – 20 Vdc batt	19 – 20 Vdc batt	38 – 40 Vdc batt	38 – 40 Vdc batt		
<table-container>MathemationMathematicalMathMathMathMathematicalMathMathematicalMath</table-container>		10 – 11 Vdc batt	10 - 11 Vdc batt	10 - 11 Vdc batt	10 – 11 Vdc batt	20 - 21 Vdc batt	20 - 21 Vdc batt	20 – 21 Vdc batt	20 – 21 Vdc batt	40 - 42 Vdc batt	40 – 42 Vdc batt		
<table-container>Image definitionMathematical stateMathematical stateMathem</table-container>		14 4V/dc	14 4\/dc	14 4V/dc	14 AV/dc	28 9\/dc	29 9\/dc	29. 9\/dc	28 8\/dc	57.6	57.6		
Main Matheman Mathe								15h					
<table-container>Mand Index </table-container>	Min Time Boost-Bulk charge (Tup, et L) / Temps minime Content Volume			1min	1min.	1min.	1min.	1min.	1min.	1min.	1min.		
<table-container>NumberNumb</table-container>	min. Time Boost-Buik charge (Typ. at I <sub>N</sub> ) / Tempo minimo Carica Veloce	1min.	1min.										
<table-container>Bail Bail</table-container>	Trickle-Float charge (Typ. at $I_N$ ) / Carica di mantenimento	13.75Vdc	13.75Vdc	13.75Vdc									
<table-container>Interpart<td>Trickle-Float charge (Typ. at I<sub>n</sub>) / Carica di mantenimento Recovery Charge / Carica di recupero</td><td>13.75Vdc 2 – 9Vdc</td><td>13.75Vdc 2 – 9Vdc</td><td>13.75Vdc 2 – 9Vdc</td><td>2 – 9Vdc</td><td>2 – 16Vdc</td><td>2 – 16Vdc</td><td>2 – 16Vdc</td><td>2 – 16Vdc</td><td>2 – 24Vdc</td><td>2 – 24Vdc</td></table-container>	Trickle-Float charge (Typ. at I <sub>n</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero	13.75Vdc 2 – 9Vdc	13.75Vdc 2 – 9Vdc	13.75Vdc 2 – 9Vdc	2 – 9Vdc	2 – 16Vdc	2 – 16Vdc	2 – 16Vdc	2 – 16Vdc	2 – 24Vdc	2 – 24Vdc		
<table-container>Bayes<th< td=""><td>Trickle-Float charge (Typ. at I<sub>N</sub>) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete</td><td>13.75Vdc 2 – 9Vdc 1sec. Max</td><td>13.75Vdc 2 - 9Vdc 1sec. Max</td><td>13.75Vdc 2 - 9Vdc 1sec. Max</td><td>2 – 9Vdc</td><td>2 – 16Vdc 1sec. Max</td><td>2 – 16Vdc 1sec. Max</td><td>2 – 16Vdc 1.5sec. Max</td><td>2 – 16Vdc</td><td>2 – 24Vdc 1.5sec. Max</td><td>2 – 24Vdc</td></th<></table-container>	Trickle-Float charge (Typ. at I <sub>N</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete	13.75Vdc 2 – 9Vdc 1sec. Max	13.75Vdc 2 - 9Vdc 1sec. Max	13.75Vdc 2 - 9Vdc 1sec. Max	2 – 9Vdc	2 – 16Vdc 1sec. Max	2 – 16Vdc 1sec. Max	2 – 16Vdc 1.5sec. Max	2 – 16Vdc	2 – 24Vdc 1.5sec. Max	2 – 24Vdc		
<table-container>Symplet Ly, Ly, Ly, Ly, Ly, Ly, Ly, Ly, Ly, Ly,</table-container>	Trickle-Float charge (Typ. at I <sub>N</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge)	13.75Vdc 2 – 9Vdc 1sec. Max 0.3A	13.75Vdc 2 - 9Vdc 1sec. Max 0.3A	13.75Vdc 2 - 9Vdc 1sec. Max 0.3A	2 – 9Vdc 1sec. Max	2 - 16Vdc 1sec. Max 0.3A	2 – 16Vdc 1sec. Max 0.3A	2 – 16Vdc 1.5sec. Max 0.3A	2 – 16Vdc 1sec. Max	2 – 24Vdc 1.5sec. Max 0.3A	2 – 24Vdc 1sec. Max		
Image: Proprior Problem Proble	Trickle-Float charge (Typ. at I <sub>N</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited	2 – 9Vdc 1sec. Max	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited	2 – 16Vdc 1sec. Max	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited	2 – 24Vdc 1sec. Max		
Image of the second of the s	Trickle-Float charge (Typ. at I <sub>N</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>batt</sub> / Corrente max. di Carica	13.75Vdc 2 – 9Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5%	13.75Vdc 2 - 9Vdc 1sec. Max 0.3A Yes, Unlimited < 60 mVpp 6A ± 5%	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5%	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5%	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5%	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5%	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5%	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5%	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5%		
<table-container>Image depart with a set of the set of</table-container>	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>batt</sub> / Corrente max. di Carica	13.75Vdc 2 – 9Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5%	13.75Vdc 2 - 9Vdc 1sec. Max 0.3A Yes, Unlimited < 60 mVpp 6A ± 5%	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5%	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5%	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5%	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5%	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5%	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / I <sub>batt</sub>	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub>		
Density Carding Cardi	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>bat</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>ad</sub> ) / Limitazione Corrente di Carica	13.75Vdc 2 - 9Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>batt</sub>	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealen NiCd 1.5V/cell (10	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I <sub>batt</sub> d Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I <sub>bat</sub> ell gel;	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>bat</sub>	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / I <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell ( 0 elem.) trickle (Imax 10%)	2 - 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> pel;	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>oatt</sub> 2.23 V/cell Open Le 2.27 V/cell See NiCd 1.5V/cell (4	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> sed, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%)		
Signed ScaleSigned Scale<	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>batt</sub> / Corrente max. di Carica Charging current Limiting I <sub>kt</sub> (I <sub>sd)</sub> / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max.	10.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA	13.75Vdc     2 - 9Vdc     1sec. Max     0.3A     Yes, Unlimited     ≤ 60 mVpp     6A ± 5%     20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer     NiCd 1.5V/cell (10 √     ≤100mA	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I <sub>batt</sub> dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I <sub>bat</sub> sll gel; \$100mA	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>batt</sub> ≤100mA	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 \$100mA	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / I <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 5 0 elem.) trickle (Imax 10%) ≤100mA	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> jel; ≤100mA	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell See NiCd 1.5V/cell (4 ≤100mA	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA		
<table-container>Mander March&lt;</table-container>	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>batt</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>adj</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector)	10.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA	13.75Vdc     2 - 9Vdc     1sec. Max     0.3A     Yes, Unlimited     ≤ 60 mVpp     6A ± 5%     20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer     NiCd 1.5V/cell (10 √     ≤100mA	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I <sub>batt</sub> dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I <sub>bat</sub> sll gel; \$100mA	2 - 16Vdc 1sec. Max 0.3A Yes. Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>batt</sub> ≤100mA Boost / Trickle	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>oatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / I <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 5 0 elem.) trickle (Imax 10%) ≤100mA	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> jel; ≤100mA	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell See NiCd 1.5V/cell (4 ≤100mA	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA		
Indiany pand pand pand pandMax pand <br< td=""><td>Trickle-Float charge (Typ. at I<sub>k</sub>) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I<sub>bat</sub> / Corrente max. di Carica Charging current Limiting I<sub>k</sub> (I<sub>ad)</sub> / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica</td><td>10.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I<sub>batt</sub>         ≤100mA</td><td>13.75Vdc     2 - 9Vdc     1sec. Max     0.3A     Yes, Unlimited     ≤ 60 mVpp     6A ± 5%     20 ÷ 100 % / l<sub>batt</sub>     2.23 V/cell Open Lead, 2.25 V/cell Sealer     NiCd 1.5V/cell (10 √     ≤100mA</td><td>13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I<sub>batt</sub>           dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)</td><td>2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I<sub>bat</sub> sll gel; \$100mA</td><td>2 - 16Vdc 1sec. Max 0.3A Yes. Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I<sub>batt</sub> ≤100mA Boost / Trickle</td><td>2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>oatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle</td><td>2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / I<sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 5 0 elem.) trickle (Imax 10%) ≤100mA</td><td>2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> jel; ≤100mA</td><td>2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell See NiCd 1.5V/cell (4 ≤100mA</td><td>2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I<sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA</td></br<>	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>bat</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>ad)</sub> / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica	10.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA	13.75Vdc     2 - 9Vdc     1sec. Max     0.3A     Yes, Unlimited     ≤ 60 mVpp     6A ± 5%     20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer     NiCd 1.5V/cell (10 √     ≤100mA	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I <sub>batt</sub> dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I <sub>bat</sub> sll gel; \$100mA	2 - 16Vdc 1sec. Max 0.3A Yes. Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>batt</sub> ≤100mA Boost / Trickle	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>oatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / I <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 5 0 elem.) trickle (Imax 10%) ≤100mA	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> jel; ≤100mA	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell See NiCd 1.5V/cell (4 ≤100mA	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA		
ALMAGNONTPUT         Instrument         Instr	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>ban</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>ad</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA	10.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA	13.75Vdc     2 - 9Vdc     1sec. Max     0.3A     Yes, Unlimited     ≤ 60 mVpp     6A ± 5%     20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Seale     NiCd 1.5V/cell (10 +     SiCd 1.5V/cell (10 +     S	13.75Vdc     2 - 9Vdc     1sec. Max     0.3A     Yes, Unlimited     ≤60 mVpp     10A ± 5%     20 ÷ 100 % / l <sub>ball</sub> 1ead, 2.27 V/cell Sealed Lead, 2.3 V/ce elem.) trickle (Imax 10%)     ≤100mA     Boost / Trickle	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I <sub>bat</sub> sll gel; \$100mA	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>batt</sub> ≤100mA Boost / Trickle IUoUo, Automatic, 3 stag	2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / I <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 5 0 elem.) trickle (Imax 10%) ≤100mA	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> jel; ≤100mA	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle		
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CLMATE DATA         C        C         C	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>batt</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>bdj</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÉ USCITA Main or Backup Power Low Battery Fault Battery	10.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer NICd 1.5V/cell (10           \$100mA           Boost / Trickle           Yes           Yes	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I <sub>batt</sub> d Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)           ≤100mA           Boost / Trickle           Yes           Yes	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I <sub>bat</sub> ell gel; ≤100mA Boost / Trickle Yes Yes	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>batt</sub> ≤100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell • 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> gel; ≤100mA Boost / Trickle Yes Yes	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes		
Indemendent default of the serverServer </td <td>Trickle-Float charge (Typ. at I<sub>k</sub>) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I<sub>kant</sub> / Corrente max. di Carica Charging current Limiting I<sub>N</sub> (I<sub>kal</sub>) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR:</td> <td>13.75Vdc 2 – 9Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I<sub>batt</sub></td> <td>13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l<sub>batt</sub>           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           Yes           Yes           Yes</td> <td>13.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I<sub>batt</sub>         dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes</td> <td>2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l<sub>bat</sub> ell gel; ≤100mA Boost / Trickle Yes Yes Yes</td> <td>2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / l<sub>batt</sub> ≤100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes</td> <td>2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUloUo, Automatico a 3 Stadi Yes Yes Yes</td> <td>2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l<sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell • 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes</td> <td>2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes</td> <td>2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>oatt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes</td> <td>2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>bat</sub> add, 2.25 V/cell gel; 0 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes</td>	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>kant</sub> / Corrente max. di Carica Charging current Limiting I <sub>N</sub> (I <sub>kal</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR:	13.75Vdc 2 – 9Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>batt</sub>	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           Yes           Yes           Yes	13.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I <sub>batt</sub> dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> ell gel; ≤100mA Boost / Trickle Yes Yes Yes	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / l <sub>batt</sub> ≤100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUloUo, Automatico a 3 Stadi Yes Yes Yes	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell • 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>oatt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> add, 2.25 V/cell gel; 0 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes		
Density "ph() Density "ph()Sep "-25%() /CSep "-25%() /C </td <td>Trickle-Float charge (Typ. at I<sub>k</sub>) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I<sub>bast</sub> / Corrente max. di Carica Charging current Limiting I<sub>k</sub> (I<sub>bad</sub>) / Limitazione Corrente di Carica Jumper Config.Type Battery (NICd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus</td> <td>13.75Vdc 2 – 9Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I<sub>batt</sub></td> <td>13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l<sub>batt</sub>           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           Yes           Yes           Yes</td> <td>13.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I<sub>batt</sub>         dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes</td> <td>2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l<sub>bat</sub> ell gel; ≤100mA Boost / Trickle Yes Yes Yes</td> <td>2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / l<sub>batt</sub> ≤100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes</td> <td>2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUloUo, Automatico a 3 Stadi Yes Yes Yes</td> <td>2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l<sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell • 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes</td> <td>2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes</td> <td>2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>oatt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes</td> <td>2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>bat</sub> add, 2.25 V/cell gel; 0 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes</td>	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>bast</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>bad</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NICd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus	13.75Vdc 2 – 9Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>batt</sub>	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           Yes           Yes           Yes	13.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I <sub>batt</sub> dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> ell gel; ≤100mA Boost / Trickle Yes Yes Yes	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / l <sub>batt</sub> ≤100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUloUo, Automatico a 3 Stadi Yes Yes Yes	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell • 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>oatt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> add, 2.25 V/cell gel; 0 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes		
Hundly also ConditionSelvin SectionSelvin Section <th< td=""><td>Trickle-Float charge (Typ. at I<sub>k</sub>) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I<sub>bast</sub> / Corrente max. di Carica Charging nax I<sub>bast</sub> / Corrente max. di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA</td><td>13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I<sub>batt</sub>         \$100mA         Boost / Trickle         Yes         Yes         Yes         Yes         No</td><td>13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 + 100 % / I<sub>bait</sub>           2.23 V/cell Open Lead, 2.25 V/cell Sealen NiCd 1.5V/cell (10 ·           ≤100mA           Boost / Trickle           Yes           Yes           Yes           No</td><td>13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / l<sub>batt</sub>           d Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           No</td><td>2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l<sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Yes</td><td>2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I<sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes No</td><td>2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes No</td><td>2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / t<sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤ 100mA Boost / Trickle Yes Yes Yes No</td><td>2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>bat</sub> set: ≤100mA Boost / Trickle Yes Yes Yes Optional</td><td>2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes No</td><td>2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes</td></th<>	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>bast</sub> / Corrente max. di Carica Charging nax I <sub>bast</sub> / Corrente max. di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> \$100mA         Boost / Trickle         Yes         Yes         Yes         Yes         No	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 + 100 % / I <sub>bait</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealen NiCd 1.5V/cell (10 ·           ≤100mA           Boost / Trickle           Yes           Yes           Yes           No	13.75Vdc           2 – 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / l <sub>batt</sub> d Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           No	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Yes	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I <sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes No	2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes No	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / t <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤ 100mA Boost / Trickle Yes Yes Yes No	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> set: ≤100mA Boost / Trickle Yes Yes Yes Optional	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes No	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes		
Colong/AgfreddamentoAuko ConvectionAuko Conv	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>bast</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>ad</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> \$100mA         Boost / Trickle         Yes         Yes         Yes         Yes         No         -25 ÷ +70°C	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 + 100 % / Ibatt           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / ≤100mA           Boost / Trickle           Yes           Yes           Yes           No	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I <sub>batt</sub> 1Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           No	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I <sub>bat</sub> sill gel; ≤100mA Boost / Trickle Yes Yes Yes Optional -25 ÷ +70°C	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>bat</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes No -25 ÷ +70°C	2 - 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes No	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / I <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes No	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bet</sub> 10 ÷ 100 % / I <sub>bet</sub> 10; ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes No	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / l <sub>bat</sub> add, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Optional -25 ÷ +70°C		
General Data         Solvac         S	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>batt</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>bdg</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÉ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T <sup>a</sup> > (In) / De rating T <sup>a</sup> > (In) Ambient Temperature Storage / Temperatura max. Magazzino	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / l <sub>batt</sub> ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Soort / Trickle         No         -25 ÷ +70°C         > 50° -2.5%(In) / °C         -40 ÷ +85°C	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / loant           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           20 + 25 ÷ +70°C           > 50° - 2.5%(in) / °C           40 ÷ +85°C	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I <sub>batt</sub> 3Lead, 2.27 V/cell Sealed Lead, 2.3 V/celem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         4 Lead, 2.27 V/cell Sealed Lead, 2.3 V/celem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         A         20 ÷ 2.5 ÷ 770°C         > 50° - 2.5%(In) / °C         -40 ÷ +85°C	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I <sub>bat</sub> sll gel; ≤100mA Boost / Trickle Yes Yes Yes Yes Qptional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	2 – 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell • 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> gel; ≤100mA Boost / Trickle Yes Yes Yes Yes Qptional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Qptional -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C		
Isolation Voltage (IN / VDT/Tensione di Isolamento (IN / CERA)3000vac	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>katt</sub> / Corrente max. di Carica Charging current Limiting I <sub>kt</sub> (I <sub>kdj</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÉ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAR Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T <sup>a</sup> > (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità	13.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Soor - 25% ((n) / °C         -40 ÷ +85°C         95% to 25°C	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l <sub>bait</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealen NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           95% -2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I <sub>bait</sub> 3Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           S0° -2.5% (In) / °C           -40 ÷ +85°C           95% to 25°C	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> ell gel: ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C	2 - 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>ban</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>uatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell See NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes No -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C	2 - 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> 10 ÷ 100 % / I <sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Qptional -25 ÷ +70°C >50° -2.5%(in) / °C -40 ÷ +85°C 95% to 25°C	2 - 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> ad, 2.25 V/cell Sealed Lead, 10e dean, 2:3 V/cell gel; 0 elem, Virkle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Yes Ye		
Isolation Voltage(N/ PE) / Tensione di Isolamento(N/ TERRA)1605/ac <td>Trickle-Float charge (Typ. at I<sub>k</sub>) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I<sub>batt</sub> / Corrente max. di Carica Charging current Limiting I<sub>k</sub> (I<sub>kdj</sub>) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Raffreddamento</td> <td>13.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I<sub>batt</sub>         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Soor - 25% ((n) / °C         -40 ÷ +85°C         95% to 25°C</td> <td>13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l<sub>bait</sub>           2.23 V/cell Open Lead, 2.25 V/cell Sealen NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           95% -2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C</td> <td>13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I<sub>bait</sub>           3Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           S0° -2.5% (In) / °C           -40 ÷ +85°C           95% to 25°C</td> <td>2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l<sub>bat</sub> ell gel: ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Optional -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C</td> <td>2 - 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I<sub>ban</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C</td> <td>2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>uatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell See NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes No -25 ÷ +70°C &gt; 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C</td> <td>2 - 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l<sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Yes Ye</td> <td>2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> 10 ÷ 100 % / I<sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Qptional -25 ÷ +70°C &gt;50° -2.5%(in) / °C -40 ÷ +85°C 95% to 25°C</td> <td>2 - 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C</td> <td>2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>bat</sub> ad, 2.25 V/cell Sealed Lead, 10e dean, 2:3 V/cell gel; 0 elem, Virkle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Yes Ye</td>	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>batt</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>kdj</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Raffreddamento	13.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Soor - 25% ((n) / °C         -40 ÷ +85°C         95% to 25°C	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l <sub>bait</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealen NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           95% -2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I <sub>bait</sub> 3Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           S0° -2.5% (In) / °C           -40 ÷ +85°C           95% to 25°C	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> ell gel: ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C	2 - 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>ban</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>uatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell See NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes No -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C	2 - 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> 10 ÷ 100 % / I <sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Qptional -25 ÷ +70°C >50° -2.5%(in) / °C -40 ÷ +85°C 95% to 25°C	2 - 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> ad, 2.25 V/cell Sealed Lead, 10e dean, 2:3 V/cell gel; 0 elem, Virkle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Yes Ye		
Protection Class (EM/EC 6052) / Protecione ClassP20P20P20P20P20P20P20P20Reliability (MTBF EC 1709 / Affidabilità>300 00 h>300 00 h>	Trickle-Float charge (Typ. at I <sub>n</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>bast</sub> / Corrente max. di Carica Charging current Limiting I <sub>ht</sub> (I <sub>adj</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÊ USCITA Main or Backup Power Low Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T <sup>a</sup> > (In) / De rating T <sup>a</sup> > (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Raffreddamento GENERAL DATA	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         No         -25 ÷ +70°C         > 50° -2.5%(In) / °C         -40 ÷ +85°C         95% to 25°C         Auto Convection	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 ·           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           95% to 25°C           Auto Convection	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / l <sub>batt</sub> d Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         95% to 25°C         Auto Convection	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I <sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection	2 - 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C 40 ÷ +85°C 95% to 25°C Auto Convection	2 - 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / t <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C = 40 ÷ +85°C 95% to 25°C Auto Convection	2 - 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bet</sub> since the second	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection		
Relability (MTBF EC 1709) / Affidabilità>300 00h>300 00h300 0h300 0h	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>bas</sub> / Corrente max. di Carica Charging max I <sub>bas</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>ad</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T <sup>a</sup> > (In) / De rating T <sup>a</sup> > (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 "C / Umidità Cooling / Raffredamento GENERAL DATA Isolation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / PE) / Tensione di Isolamento (IN / TERRA)	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> \$100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         At 5%         20 ÷ 100 % / I <sub>batt</sub> Yes         Yes         Yes         Yes         Yes         Auto Convection         3000Vac         1605Vac	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlmitted           ≤ 60 mVpp           6A ± 5%           20 + 100 % / Ibatt           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / Sealer NiCd 1.5V/cell (10 / Sealer NiCd 1.5V/cell (10 / Sealer Yes           Yes           300 Vac           1605Vac	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I <sub>batt</sub> 1 Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         S0° -2.5%(In) / °C         -40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> sll gel; ≤100mA Boost / Trickle Yes Yes Yes Qptional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 455°C 95% to 25°C Auto Convection 3000Vac 1605Vac	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I <sub>bat</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac	2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / t <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 \$100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac	2 - 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / I <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell ÷ 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> 10 ÷ 100 % / I <sub>bat</sub> 2100mA Boost / Trickle Yes Yes Yes Yes Qptional -25 ÷ +70°C >50° -2.5%(in) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / l <sub>bat</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Optional -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac		
Pollution Degree Environment / Grade d'inquiamento ambientale       2       3	Trickle-Float charge (Typ. at I <sub>n</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>batt</sub> / Corrente max. di Carica Charging current Limiting I <sub>n</sub> (I <sub>odj</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÉ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating Ta (In/ ) De rating Ta > (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Rafreddamento GENERAL DATA Isolation Voltage(IN / OUT) / Tensione di Isolamento(IN / TERRA) Isolation Voltage(OUT / PE) / Tensione di Isolamento(IN / TERRA)	10.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / l <sub>batt</sub> ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Soor - 2.5% (In) / °C         -40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500Vac	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / bait           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Auto Convection           3000Vac           1605Vac	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           10A ± 5%           20 ÷ 100 % / I <sub>batt</sub> dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce           elem.) trickle (Imax 10%)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           Soo / Trickle           Xes           Yes           Yes           Yes           ALCOURD           95% to 25°C           Auto Convection           3000Vac           1605Vac           500Vac	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / I <sub>bat</sub> ell gel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I <sub>batt</sub> 20 + 100 % / I <sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	2 - 16Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           5A ± 5%           20 ÷ 100 % / t <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2           ≤100mA           Boost / Trickle           e / IUoUo, Automatico a 3 Stadi           Yes           Yes           Yes           No           -25 ÷ +70°C           > 50° -2.5%(In) / °C           40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500Vac	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I <sub>bott</sub> 300mA Boost / Trickle Yes Yes Yes Yes Yes Qptional -25 ÷ +70°C > 50° +2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤100mA Boost / Trickle Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / l <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac		
Connection Lass (with PE connected) / Grade di protezione (concavo di terra collegato)         Sem (24-14 AWG)         2,5m (24-14 AWG)         4m (30-10 AWG)         4m (30-10 AWG)         4m (30-10 AWG)           Protection Lass (with PE connected) / Grade di protezione (concavo di terra collegato)         1 <td< td=""><td>Trickle-Float charge (Typ. at I<sub>k</sub>) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I<sub>katt</sub> / Corrente max. di Carica Charging max I<sub>katt</sub> / Corrente max. di Carica Charging current Limiting I<sub>kt</sub> (I<sub>kd)</sub>/ Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T<sup>a</sup> &gt; (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Rafreddamento GENERAL DATA Isolation Voltage(IN / OUT) / Tensione di Isolamento(IN / OUT) Isolation Voltage(IN / DE) / Tensione di Isolamento(IN / TERRA) Isolation Voltage(IN / DE) / Tensione di Isolamento(OUT/TERRA) Protection Class (EN/IEC 60529) / Protezione Classe</td><td>13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I<sub>batt</sub>         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Soor - 2.5% (In) / °C         -40 ± +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500°ac         IP 20</td><td>13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l<sub>bait</sub>           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           S0° -2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500°vac           JP 20</td><td>13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I<sub>batt</sub>         3Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         S0° -2.5%(In) / °C         -40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500°vac         Ip 20</td><td>2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l<sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Optional -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 - 16Vdc 1 sec. Max 0.3A Yes. Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I<sub>ban</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>uatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell See NiCd 1.5V/cell (2 ≤ 100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection </td><td>2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l<sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -25%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> 10 ÷ 100 % / I<sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Qptional -25 ÷ +70°C &gt;50° -2.5%(In) / °C -40 ÷ 48°C 95% Io 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 - 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>oatt</sub> 2.23 V/cell Open Le 2.27 V/cell Ser NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I<sub>batt</sub> ad, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C &gt; 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td></td<>	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>katt</sub> / Corrente max. di Carica Charging max I <sub>katt</sub> / Corrente max. di Carica Charging current Limiting I <sub>kt</sub> (I <sub>kd)</sub> / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T <sup>a</sup> > (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Rafreddamento GENERAL DATA Isolation Voltage(IN / OUT) / Tensione di Isolamento(IN / OUT) Isolation Voltage(IN / DE) / Tensione di Isolamento(IN / TERRA) Isolation Voltage(IN / DE) / Tensione di Isolamento(OUT/TERRA) Protection Class (EN/IEC 60529) / Protezione Classe	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Soor - 2.5% (In) / °C         -40 ± +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500°ac         IP 20	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l <sub>bait</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           S0° -2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500°vac           JP 20	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I <sub>batt</sub> 3Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         S0° -2.5%(In) / °C         -40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500°vac         Ip 20	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 - 16Vdc 1 sec. Max 0.3A Yes. Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>ban</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>uatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell See NiCd 1.5V/cell (2 ≤ 100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -25%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> 10 ÷ 100 % / I <sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Qptional -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ 48°C 95% Io 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 - 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>oatt</sub> 2.23 V/cell Open Le 2.27 V/cell Ser NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I <sub>batt</sub> ad, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20		
Grade di protezione (con cavo di terra collegato)         I <th< td=""><td>Trickle-Float charge (Typ. at I<sub>k</sub>) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I<sub>katt</sub> / Corrente max. di Carica Charging max I<sub>katt</sub> / Corrente max. di Carica Charging current Limiting I<sub>k</sub> (I<sub>kad</sub>) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T<sup>a</sup> &gt; (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Rafreddamento GENERAL DATA Isolation Voltage(IN / OUT) / Tensione di Isolamento (IN / OUT) Isolation Voltage(OUT / PE) / Tensione di Isolamento(N / TERRA) Protection Class (ENVIEC 60529) / Protezione Classe Reliability (MTBF IEC 61709) / Affidabilità</td><td>13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I<sub>batt</sub>         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Soor - 2.5% (In) / °C         -40 ± +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500°ac         IP 20</td><td>13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l<sub>bait</sub>           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           S0° -2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500°Vac           IP 20</td><td>13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I<sub>batt</sub>         3Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         S0° -2.5%(In) / °C         -40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500°vac         Ip 20</td><td>2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l<sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Optional -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 - 16Vdc 1 sec. Max 0.3A Yes. Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I<sub>ban</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>uatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell See NiCd 1.5V/cell (2 ≤ 100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection </td><td>2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l<sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -25%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> 10 ÷ 100 % / I<sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Qptional -25 ÷ +70°C &gt;50° -2.5%(In) / °C -40 ÷ 48°C 95% Io 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 - 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>oatt</sub> 2.23 V/cell Open Le 2.27 V/cell Ser NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td><td>2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I<sub>bat</sub> ad, 2.25 V/cell Sealed Lead, led Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C &gt; 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20</td></th<>	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>katt</sub> / Corrente max. di Carica Charging max I <sub>katt</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>kad</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T <sup>a</sup> > (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Rafreddamento GENERAL DATA Isolation Voltage(IN / OUT) / Tensione di Isolamento (IN / OUT) Isolation Voltage(OUT / PE) / Tensione di Isolamento(N / TERRA) Protection Class (ENVIEC 60529) / Protezione Classe Reliability (MTBF IEC 61709) / Affidabilità	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Soor - 2.5% (In) / °C         -40 ± +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500°ac         IP 20	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l <sub>bait</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10 / \$100mA           Boost / Trickle           Yes           S0° -2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500°Vac           IP 20	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I <sub>batt</sub> 3Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         S0° -2.5%(In) / °C         -40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500°vac         Ip 20	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 - 16Vdc 1 sec. Max 0.3A Yes. Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>ban</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>uatt</sub> 2.23 V/cell Open Lead, 2.25 V/cell See NiCd 1.5V/cell (2 ≤ 100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -25%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> 10 ÷ 100 % / I <sub>batt</sub> 3el; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Qptional -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ 48°C 95% Io 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 - 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>oatt</sub> 2.23 V/cell Open Le 2.27 V/cell Ser NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	2 - 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 + 100 % / I <sub>bat</sub> ad, 2.25 V/cell Sealed Lead, led Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20		
Dimension (wh-d)/Dimension (l-h-p) mm         6x15x15mm         6x15x15mm         6x15x15mm         6x15x15mm         6x15x15mm         10x115x15mm         10x115	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>bast</sub> / Corrente max. di Carica Charging nax I <sub>bast</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>bd</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÊ USCITA Main or Backup Power Low Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating Ta > (In) / De rating Ta > (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Rafreddamento GENERAL DATA Isolation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE)	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> \$100mA         Boost / Trickle         Yes         Yes <td>13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l<sub>batt</sub>           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           Sov - 2.5% (In) / °C           40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500°vac           IP 20           &gt; 300 000 h           2</td> <td>13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / l<sub>batt</sub>         d Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         No         -25 ÷ +70°C         &gt; 50° + 2.5%(In) / °C         40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500Vac         IP 20         &gt; 300 000 h         2</td> <td>2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l<sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Optional -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 1605Vac 500Vac 1625 ≤ 200 &gt; 300 000 h 2</td> <td>2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I<sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1065Vac 500Vac IP 20 &gt; 300 000 h 2</td> <td>2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 &gt; 300 00 h 2</td> <td>2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l<sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 &gt; 300 000 h 2</td> <td>2 - 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> sel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Optional -25 ÷ +70°C -25%(ln) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1062Vac 500Vac 11P 20 &gt; 300 000 h 2</td> <td>2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 &gt; 300 00 h 2</td> <td>2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 &gt; 300 000 h 2</td>	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           Sov - 2.5% (In) / °C           40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500°vac           IP 20           > 300 000 h           2	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / l <sub>batt</sub> d Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         No         -25 ÷ +70°C         > 50° + 2.5%(In) / °C         40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500Vac         IP 20         > 300 000 h         2	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 1605Vac 500Vac 1625 ≤ 200 > 300 000 h 2	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I <sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1065Vac 500Vac IP 20 > 300 000 h 2	2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 00 h 2	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	2 - 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> sel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Optional -25 ÷ +70°C -25%(ln) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1062Vac 500Vac 11P 20 > 300 000 h 2	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 00 h 2	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2		
	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>katt</sub> / Corrente max. di Carica Charging current Limiting I <sub>kt</sub> (I <sub>kd)</sub> / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÉ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T <sup>a</sup> > (In) / De rating T <sup>a</sup> > (In) Ambient Temperature Operation / Temperatura Magazzino Humidity at 25 °C / Umidità Cooling / Rafreddamento GENERAL DATA Isolation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / TERRA) Protection Class (EN/IEC 60529) / Protezione Classe Reliability (MTBF IEC 61709) / Affidabilità Pollution Degree Environment / Grado d'inquinamento ambientale Connection Terminal Blocks Screw Type / Dimensione morsetti Protection Class (with PE connected) /	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> \$100mA         Boost / Trickle         Yes         Yes <td>13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l<sub>batt</sub>           2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           Sov - 2.5% (In) / °C           40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500°vac           IP 20           &gt; 300 000 h           2</td> <td>13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / l<sub>batt</sub>         d Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         No         -25 ÷ +70°C         &gt; 50° + 2.5%(In) / °C         40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500Vac         IP 20         &gt; 300 000 h         2</td> <td>2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l<sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Coptional -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 1605Vac 500Vac 1625 ≤ 200 &gt; 300 000 h 2</td> <td>2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I<sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1065Vac 500Vac IP 20 &gt; 300 000 h 2</td> <td>2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 &gt; 300 00 h 2</td> <td>2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l<sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 &gt; 300 000 h 2</td> <td>2 - 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> sel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Optional -25 ÷ +70°C -25%(ln) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1062Vac 500Vac 11P 20 &gt; 300 000 h 2</td> <td>2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l<sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 &gt; 300 00 h 2</td> <td>2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I<sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C &gt; 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 &gt; 300 000 h 2</td>	13.75Vdc           2 - 9Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           6A ± 5%           20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10)           ≤100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Yes           Yes           Sov - 2.5% (In) / °C           40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500°vac           IP 20           > 300 000 h           2	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / l <sub>batt</sub> d Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         No         -25 ÷ +70°C         > 50° + 2.5%(In) / °C         40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500Vac         IP 20         > 300 000 h         2	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Coptional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 1605Vac 500Vac 1625 ≤ 200 > 300 000 h 2	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I <sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1065Vac 500Vac IP 20 > 300 000 h 2	2 – 16Vdc 1 sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2 ≤100mA Boost / Trickle e / IUoUo, Automatico a 3 Stadi Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 00 h 2	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	2 - 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> sel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Optional -25 ÷ +70°C -25%(ln) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1062Vac 500Vac 11P 20 > 300 000 h 2	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 00 h 2	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2		
Safety Standard Approval / Conformità ed Appro	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>bast</sub> / Corrente max. di Carica Charging current Limiting I <sub>k</sub> (I <sub>bad</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Jumper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA Main or Backup Power Low Battery Fault Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating Ta > (In) / De rating Ta > (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Rafreddamento GENERAL DATA Isolation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DT) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) Isolation Voltage (IN / DE) / Tensione di Isolamento ambientale Connection Terminal Blocks Screw Typ	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / I <sub>batt</sub> \$100mA         Boost / Trickle         Yes         Store - 25%(In) / °C         Auto Convection         3000Vac         1605Vac         500Vac         500Vac         1P 20         > 300 000 h         2         2,5mm (24-14 AWG)         I	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         6A ± 5%         20 ÷ 100 % / I <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         95% to 25°C         Auto Convection         3000Vac         1605Vac         500Vac         IP 20         > 300 000 h         2         2,5mm (24-14 AWG)         I	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / l <sub>batt</sub> 31 Lead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Soot / Trickle         Soot / Trickle         Soot / Trickle         Yes         Yes         Yes         Yes         Soot / Trickle         3000Vac         40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500Vac         IP 20         > 300 000 h         2         2,5mm (24-14 AWG)         I	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 17 17 18 18 18 18 18 18 18 18 18 18	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 + 100 % / I <sub>batt</sub> 20 + 100 % / I <sub>batt</sub> ≤ 100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 2.5mm (24-14 AWG) I	2 - 16Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           5A ± 5%           20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2           ≤100mA           Boost / Trickle           e / IUoUo, Automatico a 3 Stadi           Yes           Yes           No           -25 ÷ +70°C           > 50° - 2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500Vac           P 20           > 300 00 h           2           2.5mm (24-14 AWG)           I	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / l <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤ 100mA Boost / Trickle Yes Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1625×20 2 2.5mm (24-14 AWG) 1	2 - 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>batt</sub> yel; ≤100mA Boost / Trickle Yes Yes Yes Yes Yes Optional -25 ÷ +70°C -300° -2.5%(ln) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1062Vac 500Vac 11P 20 > 300 000 h 2 4mm (30-10 AWG) I	2 – 24Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 5A ± 5% 20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le 2.27 V/cell Sec NiCd 1.5V/cell (4 ≤ 100mA Boost / Trickle Yes Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac I P 20 > 300 00 h 2 2,5mm (24-14 AWG) I	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 4mm (30-10 AWG) I		
(1) - Options to be defined by Order, Push Button not available Optional for auxiliary Output (RJ45 connection): Temp Charging probe: Temperature sensor for battery 2m lenght. Voltage drop compensation: Cable for battery connection 2m lenght. Remote monitoring Display. Can Bus Cable.	Trickle-Float charge (Typ. at I <sub>k</sub> ) / Carica di mantenimento Recovery Charge / Carica di recupero Turn-On delay after applying mains voltage / Accensione con tensione di rete End of charging current (Bulk charge) Start up with strong load (capacitive load)/ Start up con carichi capacitivi Residual Ripple / Ripple Residuo Charging max I <sub>kast</sub> / Corrente max. di Carica Charging nurent Limiting I <sub>k</sub> (I <sub>ad</sub> ) / Limitazione Corrente di Carica Jumper Config.Type Battery (NICd optional) / Configurazione Tipo Batteria Quieshent Current / Consumo da batteria max. Remote Input Control (AMP Type connector) Characteristic Curve / Caratteristiche di Carica SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÊ USCITA Main or Backup Power Low Battery AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR: CAN Bus CLIMATIC DATA Ambient Temperature operation / Temperatura Ambiente di Lavoro De rating T <sup>a</sup> > (In) / De rating T <sup>a</sup> > (In) Ambient Temperature Storage / Temperatura Ambiente di Lavoro De rating T <sup>a</sup> > (In) / De rating T <sup>a</sup> > (In) Ambient Temperature Storage / Temperatura max. Magazzino Humidity at 25 °C / Umidità Cooling / Raffreddamento GENERAL DATA Solation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (IN / OUT) Isolation Voltage(IN / PE) / Tensione di Isolamento (I	10.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         3A ± 5%         20 ÷ 100 % / l <sub>batt</sub> ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Yes         Soost / Trickle         Yes         Yes         Yes         Yes         Yes         3000Vac         1005Vac         500Vac         1P 20         > 300 000 h         2         2.5mm (24-14 AWG)         I         65x115x135 mm         0.60 kg approx_	13.75Vdc         2 – 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         6A ± 5%         20 ÷ 100 % / buit         2.23 V/cell Open Lead, 2.25 V/cell Sealer NiCd 1.5V/cell (10)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Auto Convection         3000Vac         1605Vac         500Vac         IP 20         > 300 000 h         2         Z,5mm (24-14 AWG)         I         65x115x135 mm         0.60 kg approx	13.75Vdc         2 - 9Vdc         1sec. Max         0.3A         Yes, Unlimited         ≤ 60 mVpp         10A ± 5%         20 ÷ 100 % / I <sub>batt</sub> dLead, 2.27 V/cell Sealed Lead, 2.3 V/ce         elem.) trickle (Imax 10%)         ≤100mA         Boost / Trickle         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Yes         S0° - 2.5% (In) / °C         -40 ÷ +85°C         95% to 25°C         Auto Convection         3000Vac         1605Vac         500Vac         IP 20         > 3000 00 h         2         2.5mm (24-14 AWG)         I         65x115x135 mm         0.60 kg approx	2 – 9Vdc 1sec. Max Yes, Unlimited 35A ± 5% 10 ÷ 100 % / l <sub>bat</sub> all gel; ≤100mA Boost / Trickle Yes Yes Yes Optional -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 1705Vac 500Vac 500Vac	2 - 16Vdc 1sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 3A ± 5% 20 ÷ 100 % / I <sub>ban</sub> ≤100mA Boost / Trickle IUoUo, Automatic, 3 stag Yes Yes Yes Yes Yes Yes Yes No -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1005Vac 500Vac 1055Vac 500Vac 1055Vac 1055Vac 1055Vac 1055Vac 1055Vac 1055Vac 1055Vac 1055Vac 1055Vac 1055Vac 1055Vac 1055Vac 1055Vac 1	2 - 16Vdc           1sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           5A ± 5%           20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Lead, 2.25 V/cell Sea NiCd 1.5V/cell (2           \$100mA           Boost / Trickle           e / IUoUo, Automatico a 3 Stadi           Yes           Yes           Yes           No           -25 ÷ +70°C           > 50° -2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500Vac           IP 20           > 300 000 h           2           2.5mm (24-14 AWG)           I           65x115x135 mm           0.60 kg approx	2 – 16Vdc 1.5sec. Max 0.3A Yes, Unlimited ≤ 60 mVpp 10A ± 5% 20 ÷ 100 % / t <sub>batt</sub> led Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 175 175 175 175 175 175 175 175	2 – 16Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> 10 ÷ 100 % / I <sub>bat</sub> 2007 × 100 % / I <sub>bat</sub> 10 ÷ 100 % / I <sub>bat</sub> 2007 × 100 % / I <sub>bat</sub> 10 ÷ 100 % / I <sub>bat</sub>	2 - 24Vdc           1.5sec. Max           0.3A           Yes, Unlimited           ≤ 60 mVpp           5A ± 5%           20 ÷ 100 % / l <sub>batt</sub> 2.23 V/cell Open Le           2.27 V/cell Se           NiCd 1.5V/cell (4           ≤ 100mA           Boost / Trickle           Yes           Yes           Yes           Yes           Stop - 2.5%(In) / °C           -40 ÷ +85°C           95% to 25°C           Auto Convection           3000Vac           1605Vac           500Vac           IP 20           > 300 000 h           2           2.5mm (24-14 AWG)           I           100x115x135 mm           0.85 kg approx	2 – 24Vdc 1sec. Max Yes, Unlimited 10A ± 5% 10 ÷ 100 % / I <sub>bat</sub> ead, 2.25 V/cell Sealed Lead, aled Lead, 2.3 V/cell gel; 0 elem.) trickle (Imax 10%) ≤100mA Boost / Trickle Yes Yes Yes Yes Optional 025 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 500Vac 1605Vac 5000vac 175000vac 175000vac 175000000 180500000000000000000000000000000000000		