

Surge protection device set - PV-SET 2ST/1000DC/32A-2MPP-SC - 2800993


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Surge protection in IP65 housing for the DC side of an inverter with two MPP trackers up to 1000 V DC, connection via SUNCLIX plug/socket, plug-in varistors with thermal disconnect device between L+, L-, and ground/PE.



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 667937
GTIN	4046356667937

Technical data

Dimensions

Height	200 mm
Width	200 mm
Depth	122 mm
Horizontal pitch	9 Div.

Ambient conditions

Degree of protection	IP65
	IP65
Impact strength	IK08
Ambient conditions	A, B
Ambient temperature (operation)	-30 °C ... 55 °C

General

Housing material	Polycarbonate, glass-fiber-reinforced
Cover material	Polycarbonate, transparent
Connector material	PA

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Technical data

General

Flammability rating according to UL 94	V2 (Gehäuse / Deckel)
	V0 (Steckverbinder)
Color	light grey RAL 7035
Standards for clearances and creepage distances	EN 50539-11
Protection class	II
Mounting type	Surface/Wall mounting
Type	Installation housing
Surge protection fault message	optical
Direction of action	(L+)-PE & (L-)-PE & (L+)-(L-)

PV protective circuit DC side

Open circuit voltage U_{OCSTC}	830 V DC (Solar generator)
Rated surge voltage resistance U_{imp}	6 kV
Rated insulation voltage U_i	1000 V DC
Short-circuit current I_{SCSTC}	25 A DC (per MPP)

Protective circuit

IEC test classification	PV T2
Maximum continuous operating voltage U_c	1000 V DC
Rated load current I_L	≤ 80 A DC
Residual current I_{PE}	≤ 20 μ A
	≤ 250 μ A AC
Standby power consumption P_c	≤ 20 mW
Insulation resistance R_{iso}	> 5 G Ω (at 500 V DC)
Voltage protection level U_p (L+) - (L-)	≤ 3.7 kV
Max. backup fuse with branch wiring	not required
Recommended backup fuse maximum	not required

Connection, protective circuit

Connection name	PE
Connection method	Screw terminal blocks
Connection technology	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
	30 lb _F -in. (UL)
Stripping length	16 mm
Cable gland	M20
Sealing area	5 mm ... 13 mm
Cable gland	M25
Sealing area	3x 5 mm ... 7 mm

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Remote indication contact

Switching function	PDT, 1-pos.
Connection method	MC 1,5/3
Screw thread	M2
Tightening torque	0.25 Nm
	2 lb _f -in. ... 4 lb _f -in.
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG min.	30
Conductor cross section AWG max.	16

Standards and Regulations

Standards/regulations	IEC 61439-2 2011
	EN 61439-2 2011
	EN 50539-11 Surge protection

Drawings

Circuit diagram

