## PSA-600 Series (1 Phase) **Specifications**



003030

Altech Corp.

### Features:

- Multiple overload/ short circuit protection modes • Efficiency above 92%
- Easy parallel connection for more power
- Small size
- DIN rail mountable
- Cooling by free air convection
- UL508 (industrial control equipment) approved
- EN60950-1
- Built-in DC OK relay contact
- 3 year warranty

JTPUT	Cat. No.	PSA-60024
	DC VOLTAGE	24 V
	RATED CURRENT	25 A
	CURRENT RANGE	0-25A
	RATED POWER	600 W
	RIPPLE & NOISE (max)	100 mVp-p
		Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor
	VOLTAGE ADJ. RANGE	The probability of the parameter of the
	VOLTAGE TOLERANCE	-0.03
	VOLIAGE TOLENANGE	
		Tolerance: includes set up tolerance, line regulation and load regulation.
	START UP WITH STRONG LOAD	≤ 50,000 μF
	SHORT CIRCUIT CURRENT ICC	60 A
		Max 2 sec.: Hiccup mode
		Permanent: Continuous mode
	DISSIPATION POWER LOAD mas	54 W
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 1%
	SETUP, RISE TIME	1 sec. (max)
	, -	Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
PUT	HOLD UP TIME (Typ.)	Typ. 20 msec
101		13p. 20 mood
	VOLTAGE RANGE	90 ~ 135V AC / 180 ~ 264V AC switch select
	FREQUENCY RANGE	47 ~ 63 Hz +-6%
	EFFICIENCY (Typ.)	>91 %
11111111111111111111111111111111111111	AC CURRENT (115 – 230 Vac.)	8 ~ 4.2 A
	INRUSH CURRENT (Typ.)	< 16 A < 5 msec
	INTERNAL FUSE	10A (T)
	EXTERNAL FUSE (recommended)	16 A (curve B)
OTECTION	LEAKAGE CURRENT	< 1.5 mA @ 230 Vac
ROTECTION		< 1.5 IIA @ 250 Vac
	OVERLOAD	In (60°C) x 1.5 <sup>3</sup> (3 min.)
		Current max. Overload @ 4Vdc (permanent) Imax=In (60°C) x (1.8 - 2.2)
	OVER VOLTAGE	30 ~ 35 Vdc
	OVER TEMPERATURE	Yes. Shuts down output and automatically restarts when the temperature inside goes down
VIRONMENT	SHORT CIRCUIT PROTECTION	1 Hiccup Mode / 2 Fold Back / 3 Restart After Main - Selectable
VINUNIVIENI		Theory Mode / 2 Told Back / 5 hestalt Antel Main - Selectable
	DC OK AKTIV SIGNAL (max.)	20 ~ 30 Vdc
	WORKING TEMP.	-25 up to +70 °C
	HUMIDITY	95 % at 25°C, no condensation
	STORAGE TEMP	$-40 \text{ up to } +85 ^{\circ}\text{C}$
	TEMP. COEFFICIENT	$\pm 0.03\%$ / C° (0 ~ 60 °C)
	MOUNTING	
AFETY & EMC	MOUNTING	In according to IEC60068-2-6
	SAFETY STANDARDS	UL508 Listed
		IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1
	WITHSTAND VOLTAGE	I/P-0/P: 3k VAC //P-FG: 1.6k VAC 0/P-FG: 500 VAC
		IP 20 (EN/IEC 60529)
	ISOLATION RESISTANCE	
		100 MΩ (min) @ 500 Vdc
	EMI CONDUCTION & RADIATION	EN61000-6-4
	HARMONIC CURRENT	
	EMS IMMUNITY	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
		EN 61000-4-6, EN61000-6-2, EN61000-6-4,
THERS		The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
IIIENO	MTBF IEC 61709	> 500.000 h
	POLLUTION DEGREE	2
	CONNECTION TERMINAL BLOCK	4 mm Screw terminal (30 ~ 10 AWG)
	DIMENSION	85x120x140 mm ( 3.34x4.72x5.51 in )
		03/120/140 mm ( 3.34/4.72/3.31 m )
	PACKING	0.75 kg (1.9 lbs) each

For the latest on Altech Power Supply specifications please visit www.altechcorp.com/power.

# Altech Corp.

PSA Flex Series

#### **Mechanical Specification**



TB1 Terminal Pin. No Assignment TB2

Pin No.	Assignment		
	(1 phase)		
1	N / AC		
2	L / AC		
3	Jumper 115V AC		
4	Jumper 115V AC		
5	FG		

2	Terminal	Pin.	No	Assignment
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Pin No.	Assignment
1,2	DC output -V
	DC output +V
5,6	DC OK relay contacts

#### **DC OK Relay Contact**

Outputs are used for preventive function monitoring of the power supply. An electrically isolated signal contact is available. The signal contact closes when the output power is OK and opens when the output voltage falls below  $20Vdc \pm 5\%$ .



#### **Parallel Connection**

A parallel connection with the same model power supply can be set up to increase the output power. The output has to be adjusted approximately to the same value ( $\pm$  20mV) while applying a 1-2 A load to all devices before connecting them in parallel. In PSA-600xx, for more power, the position of the Easy Parallel jumper needs to be changed to enable a parallel connection. In this mode up to 4 power supplies can be put together in parallel.





Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.