




PSA-600xx (1 Phase)

Specifications

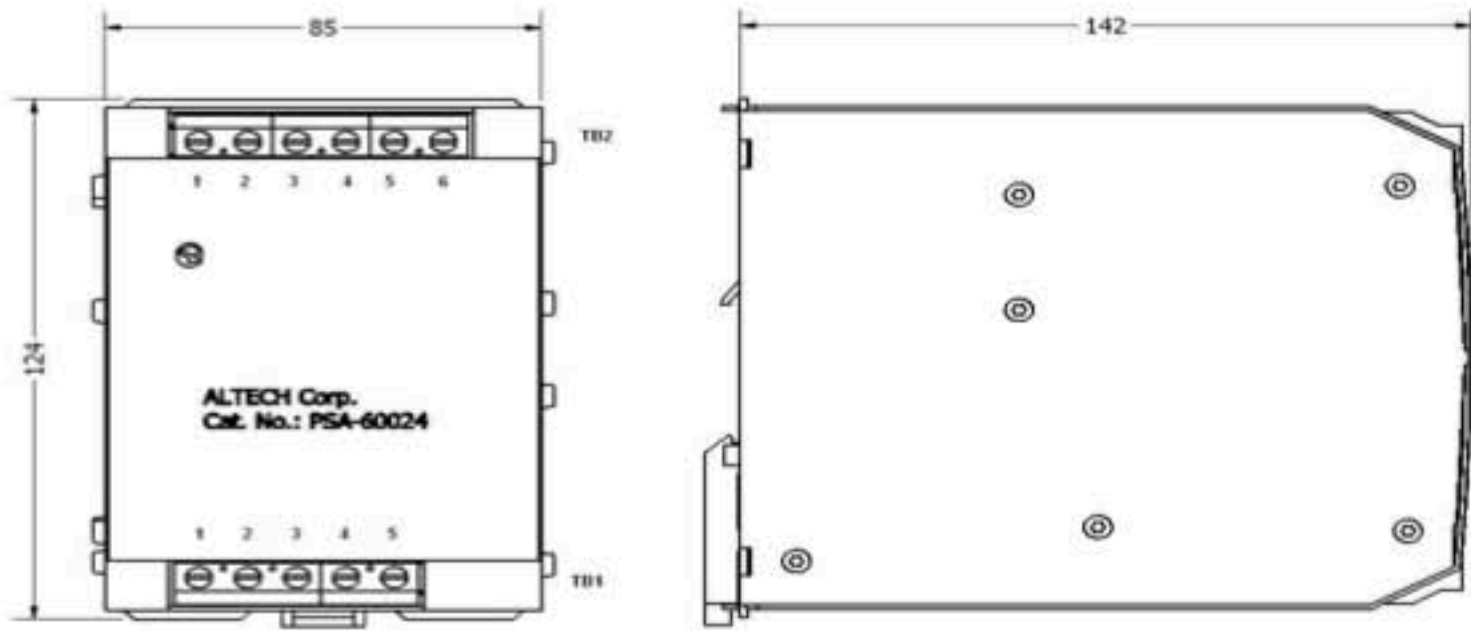


MODEL		PSA-60024	PSA-60048 (only on request)
OUTPUT	DC VOLTAGE	24 V	48 V
	RATED CURRENT	25 A	12A
	CURRENT RANGE	Refer to Output derating curve	
	RATED POWER	600 W	600 W
	RIPPLE & NOISE (max)	100 mVp-p	100 mVp-p
		Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF	
	VOLTAGE ADJ. RANGE	22 V – 27 V	41 V – 55 V
	VOLTAGE TOLERANCE	-0.03	-0.03
		Tolerance: includes set up tolerance, line regulation and load regulation.	
	START UP WITH STRONG LOAD	≤ 50,000 µF	≤ 50,000 µF
	CURRENT SHORT CIRCUIT I _{cc}	60 A	30 A
		Max 2 sec.: Hiccup mode Permanent: Continuous mode	
	DISSIPATION POWER LOAD P _{max}	54 W	54 W
	LINE REGULATION	± 0.5%	± 0.5%
	LOAD REGULATION	± 1%	± 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		
HOLD UP TIME (Typ.)	Typ. 20 msec		
INPUT	90 – 135V AC / 180 – 264V AC by switch		
	VOLTAGE RANGE		
	FREQUENCY RANGE	47 – 63 Hz +6%	
	EFFICIENCY (Typ.)	>91 %	
	AC CURRENT (115 – 230 Vac.)	8 – 4.2 A	
	INRUSH CURRENT (Typ.)	< 16 A < 5 msec	
	INTERNAL FUSE	T 10 A	
	EXTERNAL FUSE (recommended)	16 A (curve B)	
PROTECTION FUNCTION	LEAKAGE CURRENT	< 1.5 mA @ 230 Vac	
	OVERLOAD	I _n (60°C) x 1.5 * 3 min.;	
		Current max. Overload ≅ 4Vdc (permanent) I _{max} =I _n (60°C) x (1.8 - 2.2)	
	OVER VOLTAGE	30 – 35 Vdc	50 – 55 Vdc
	OVER TEMPERATURE	Yes. Shuts down output and automatically restarts when the temperature inside goes down	
	SHORT CIRCUIT PROTECTION	1 Hiccup Mode	
2 Fold Back			
3 Restart After Main			
DC OK AKTIV SIGNAL (max.)	20 – 30 Vdc	40 – 55 Vdc	
ENVIRONMENT	WORKING TEMP.	-25 up to +70 °C (>60°derating 2.5% °C)	
	HUMIDITY	95 % at 25 °C, no condensation	
	STORAGE TEMP	-40 up to +85 °C	
	TEMP. COEFFICIENT	± 0.03% / °C (0 – 60 °C)	
	VIBRATION	In according to IEC60068-2-6	
SAFETY & EMC	SAFETY STANDARDS	UL508 approved,	NOT UL APPROVED
		IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1	
	WITHSTAND VOLTAGE	I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC	
	PROTECTION CLASS (EN/IEC 60529)	IP 20	
	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,	
		The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-	
	OTHERS	MTBF IEC 61709	> 500,000 h
POLLUTION DEGREE		2	
CONNECTION TERMINAL BLOCK		4 mm Screw (30 – 10 AWG)	
DIMENSION		85x120x140 mm (3.34x4.72x5.51 in)	
PACKING		0.75 kg (1.9 lbs) per 1 pcs	
NOTE	All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.		

Mechanical Specifications

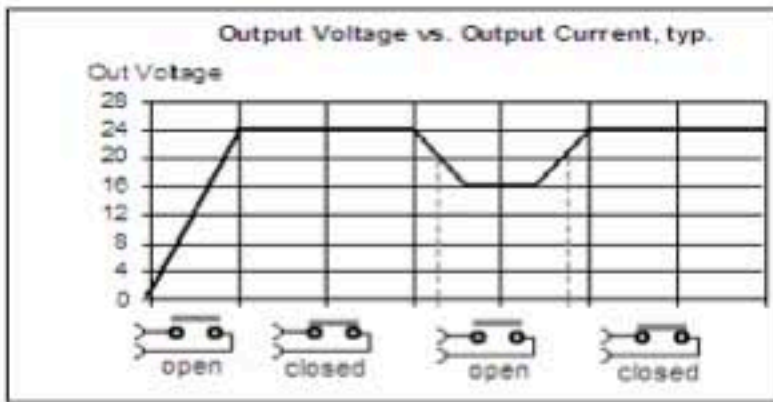
Terminal Pin. No Assign. (TB1)	
Pin No.	Assignment PSA-600xx (1 phase)
1	L
2	N
3	Jumper 115V AC
4	Jumper 115V AC
5	FG 

Terminal Pin. No Assign. (TB2)	
Pin No.	Assignment
1,2	DC output -V
3,4	DC output +V
5,6	DC OK relay contacts

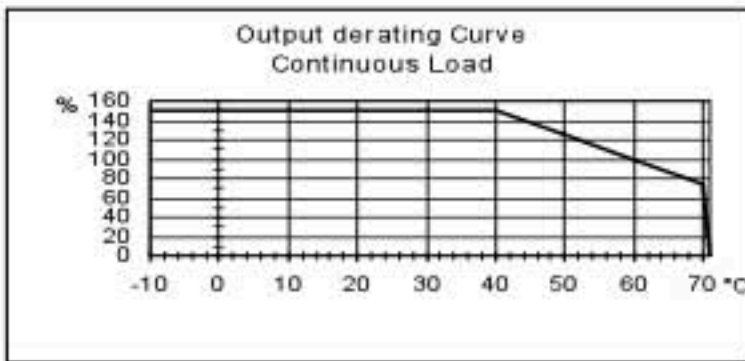


DC OK Relay Contact

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 $\pm 5\%$.



Output Derating Curve



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 ($\pm 20\text{mV}$) 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.

