

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











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

OUTPUT

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

PSA-60024 Cat. No. 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 22 V ~ 27 V **VOLTAGE TOLERANCE** -0.03 Tolerance: includes set up tolerance, line regulation and load regulation. START UP WITH STRONG LOAD $\leq 50,\!000~\mu F$ SHORT CIRCUIT CURRENT Icc 60 A Max 2 sec.: Hiccup mode Permanent: Continuous mode DISSIPATION POWER LOAD mas 54 W LINE REGULATION $\pm 0.5\%$ 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. HOLD UP TIME (Typ.) Typ. 20 msec **VOLTAGE RANGE** 90 ~ 135V AC / 180 ~ 264V AC switch select 47 ~ 63 Hz +-6% FREQUENCY RANGE >91 % EFFICIENCY (Typ.) AC CURRENT (115 - 230 Vac.) $8 \sim 4.2 A$ INRUSH CURRENT (Typ.) < 16 A < 5 msec INTERNAL FUSE 10A (T) EXTERNAL FUSE (recommended) 16 A (curve B) LEAKAGE CURRENT < 1.5 mA @ 230 Vac OVERLOAD In (60°C) x 1.5 3 (3 min.)

Current max. Overload @ 4Vdc (permanent) Imax=In (60°C) x (1.8 - 2.2)

OVER VOLTAGE $30 \sim 35 \, \text{Vdc}$

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 - 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 up to +85 °C

TEMP. COEFFICIENT \pm 0.03% / C° (0 ~ 60 °C) In according to IEC60068-2-6 MOUNTING

SAFETY STANDARDS UL508 Listed

IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1

WITHSTAND VOLTAGE 0/P-FG: 500 VAC

PROTECTION CLASS IP 20 (EN/IEC 60529) ISOLATION RESISTANCE 100 M Ω (min) @ 500 Vdc EN61000-6-4

EMI CONDUCTION & RADIATION 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-confirmed that it still meets EMC directives.

MTBF IEC 61709 > 500.000 h

POLLUTION DEGREE

CONNECTION TERMINAL BLOCK **DIMENSION**

PACKING NOTE

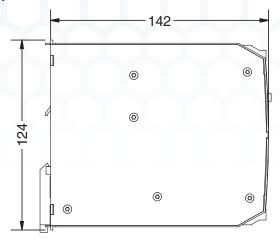
4 mm Screw terminal (30 ~ 10 AWG) 85x120x140 mm (3.34x4.72x5.51 in)

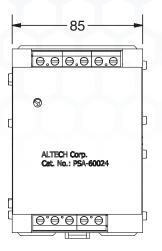
0.75 kg (1.9 lbs) each

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.



Mechanical Specification





TB1 Terminal Pin. No Assignment

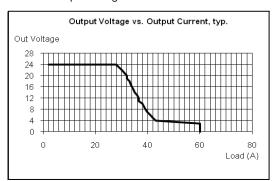
Pin No.	Assignment
	(1 phase)
1	N / AC
2	L/AC
3	Jumper 115V AC
4	Jumper 115V AC
5	FG⊕

TB2 Terminal Pin. No Assignment

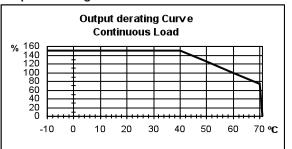
Pin No.	Assignment
1,2	DC output -V
	DC output +V
5,6	DC OK relay contacts

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 $20Vdc \pm 5\%$.

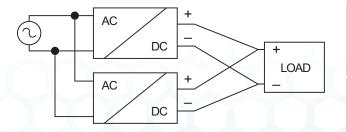


Output Derating Curve



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 (± 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.

SC Class 2 Series

PSA Flex Serios

PSB Flex Series

PS-S Slim Series

os Low Profile Sens

os Industrial Series

PSC & W Series

CBI Type

CB Type Chargers

* ccessories

Appendix

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech:

PSA-60024