

PSA-180 Series (1 Phase) **Specifications**









Features:

- Multiple overload/ short circuit protection modes
- Efficiency above 91%
- 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

Cat. No.	PSA-18024
DC VOLTAGE	24 V
RATED CURRENT	7.5 A
CURRENT RANGE	0-7.5A
RATED POWER	180 W
RIPPLE & NOISE (max)	100 mVp-p
	$Ripple \ \& \ noise \ are \ measured \ at \ 20MHz \ of \ bandwidth \ by \ using \ a \ 12" \ twisted \ pair-wire \ terminated \ with \ a \ 0.1 \mu F \ \& \ 47 \mu F \ parallel \ capacitor.$
VOLTAGE ADJ. RANGE (DC)	10 V ~ 14 V
VOLTAGE TOLERANCE	-0.03
	Tolerance: includes set up tolerance, line regulation and load regulation.
START UP WITH STRONG LOAD	≤ 50,000 μF
SHORT CIRCUIT CURRENT Icc	16 A
	Max 2 sec.: Hiccup mode
	Permanent: Continuous mode
DISSIPATION POWER LOAD mas	17 W
LINE REGULATION	± 0.5%
LOAD REGULATION	± 1%
SETUP, RISE TIME	1 sec. (max)
HOLD HD TIME (Tup.)	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
FREQUENCY RANGE	47 ~ 63 Hz +-6%
EFFICIENCY (Typ.)	>91 %
AC CURRENT (115 – 230 Vac.)	2.8 ~ 1.3 A
INRUSH CURRENT (Typ.)	< 11 A < 5 msec
INTERNAL FUSE	4A (T)
EXTERNAL FUSE (recommended)	10 Å (MCB 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)
OVED VOLTACE	00 05 1/4

PROTECTION

ENVIRONMENT				

SAFETY & EMC

OTHERS

OVER VOLTAGE OVER TEMPERATURE SHORT CIRCUIT PROTECTION	30 – 35 Vdc Yes. Shuts down output and automatically restarts when the temperature inside goes down 1 Hiccup Mode / 2 Fold Back / 3 Restart After Main - Selectable
DC OK AKTIV SIGNAL (max.) WORKING TEMP. HUMIDITY STORAGE TEMP TEMP. COEFFICIENT MOUNTING	20 ~ 30 Vdc -25 up to +70 °C 95 % at 25°C, no condensation -40 up to +85 °C ± 0.03% / C° (0 ~ 60 °C) In according to IEC60068-2-6
SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	UL508 Listed IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1 V P- O P: 3k VAC V P-FG: 1.6k VAC V P-FG: 500 VAC V P-GU (EN/IEC 60529) 100 M Ω (min) @ 500 Vdc EN61000-6-4 EN61000-3-2 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.

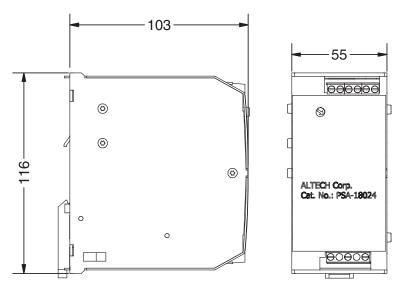
> 500.000 h MTBF IEC 61709 POLLUTION DEGREE

CONNECTION TERMINAL BLOCK 2.5 mm Screw terminal (24 \sim 14 AWG) DIMENSION 55x110x105 mm (2.16x4.33x4.13 in)

PACKING 0.60 kg (1.3 lbs) each

NOTE 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

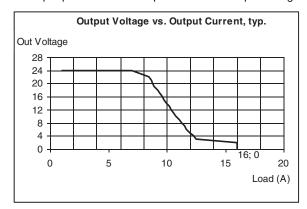
Pin No.	Assignment
	(1 phase)
1	N / AC
2	L / AC
3	FG⊕

TB1 Terminal Pin. No Assignment

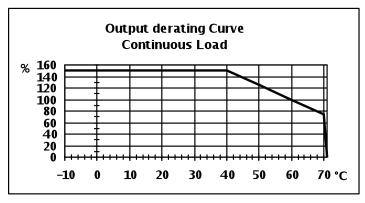
Pin No.	Assignment
	DC output -V
3,4	DC output +V
5,6	DC OK relay contacts

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



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