



# PSA-6024

## Specifications



### Features:

- Multiple overload/ short circuit protection modes
- Efficiency above 88%
- Small size
- DIN rail mountable
- Cooling by free air convection
- -25°C to +70°C
- EN60950-1
- 3 year warranty
- UL508 - E205412

### OUTPUT

Cat. No.	PSA-6024
DC VOLTAGE	24 V
RATED CURRENT	2A (115 input), 3A (230 input)
CURRENT RANGE	0-3A
RATED POWER	60 W
RIPPLE & NOISE (max)	80 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 (DC)	22-27VDC
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 I <sub>cc</sub>	7 A
DISSIPATION POWER LOAD P <sub>max</sub>	13 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.	
HOLD UP TIME (Typ.)	Typ. 20 msec

### INPUT

NOMINAL INPUT VOLTAGE	115-230VAC
VOLTAGE RANGE	90 ~ 264V AC
FREQUENCY RANGE	47 ~ 63 Hz +6%
EFFICIENCY (Typ.)	>88 %
AC CURRENT (115 – 230 Vac.)	1 - 0.7A
INRUSH CURRENT (Typ.)	< 19 A < 5 msec
INTERNAL FUSE	4A (T)
EXTERNAL FUSE (recommended)	6 A (MCB curve B)
LEAKAGE CURRENT	< 1.5 mA @ 230 Vac

### PROTECTION

OVERLOAD	Yes, continuous mode
OVER VOLTAGE	Yes (Typ 35VDC)
OVER TEMPERATURE	Yes. Shuts down output and automatically restarts when the temperature drops
SHORT CIRCUIT PROTECTION	Yes, continuous mode

### ENVIRONMENT

WORKING TEMP.	-25 up to +70 °C
HUMIDITY	95 % at 25°C, no condensation
STORAGE TEMP	-40 up to +85 °C
TEMP. COEFFICIENT	± 0.03% / °C (0 ~ 60 °C)
MOUNTING	DIN Rail according to IEC60068-2-6

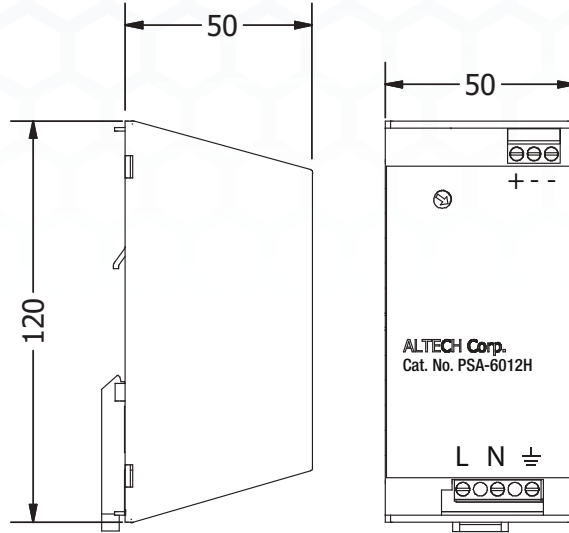
### SAFETY & EMC

SAFETY STANDARDS	UL508 Listed, 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	IP 20 (EN/IEC 60529)
ISOLATION RESISTANCE	100 MΩ (min) @ 500 Vdc
EMI CONDUCTION & RADIATION	EN61000-6-4
HARMONIC CURRENT	EN61000-3-2
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.

### OTHERS

MTBF IEC 61709	> 500.000 h
POLLUTION DEGREE	2
CONNECTION TERMINAL BLOCK	2.5 mm Screw terminal (24 ~ 14 AWG)
DIMENSION	50x120x50 mm ( 2x4.7x2 in )
PACKING	0.30 kg (0.65 lbs) each
NOTE	All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.

## Mechanical Specification



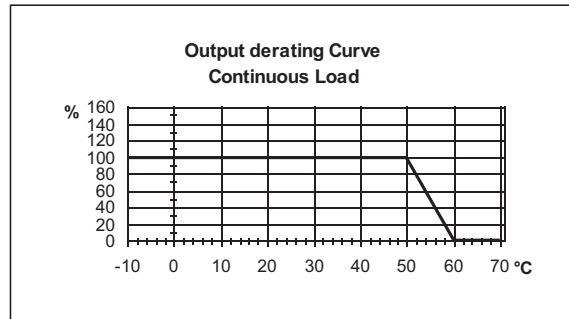
TB1 Terminal Pin. No Assignment

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

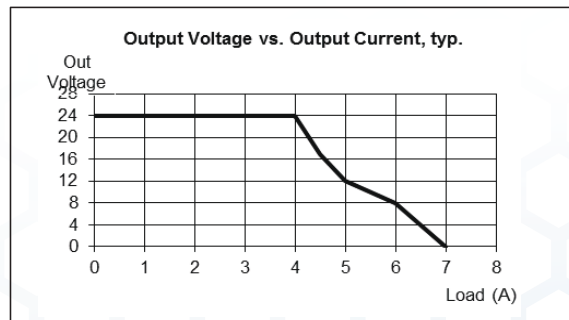
TB1 Terminal Pin. No Assignment

Pin No.	Assignment
1	DC output +V
2	DC output -V
3	DC output -V

## Output Derating Curve Continuous Load



## Output Derating Curve



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