

# PSA-120 Series (1 Phase)

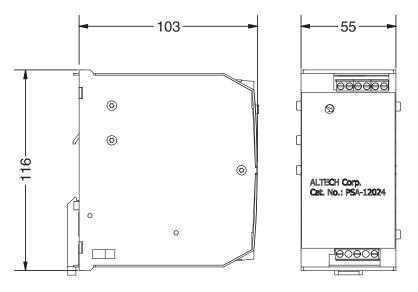
# **Specifications**



## Features:

- Multiple overload/ short circuit protection modes
- Efficiency above 91%
- Small size
- DIN rail mountable
- Cooling by free air convection
- UL 508 (industrial control equipment) approved
- EN60950-1
- Built-in DC OK relay circuit
- 3 year warranty

JTPUT	Cat. No.	PSA-12024
	DC VOLTAGE	24 V
	RATED CURRENT	5A
	CURRENT RANGE	0-5A
	RATED POWER	120 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	-0.3%
		Tolerance: includes set up tolerance, line regulation and load regulation.
	START UP WITH STRONG LOAD	≤ 50,000 μF
	SHORT CIRCUIT CURRENT Icc	12A
		Max 2 sec.: Hiccup mode
		Permanent: Continuous mode
	DISSIPATION POWER LOAD max	11 W
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 1%
	SETUP, RISE TIME	1 sec. (max)
	02.01,102.1012	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.)	20 msec
	VOLTAGE RANGE	90 ~ 135V AC / 180 ~ 264V AC switch select
	FREQUENCY RANGE	47 ~ 63 Hz
	EFFICIENCY (Typ.)	>91 %
	AC CURRENT (115 - 230V)	1.8 - 0.9V AC
	INRUSH CURRENT (Typ.)	$<$ 11 A $\leq$ 5 msec
	INTERNAL FUSE	4A (T)
	EXTERNAL FUSE (recommended)	10 A (MCB curve B)
ROTECTION	LEAKAGE CURRENT	< 1.5 mA @ 230 V AC
	OVERLOAD	In (60°C) x 1.5 $^{3} \ge 3$ min.
		Current max. Overload @ 4VDC (permanent) Imax=In (60°C) x (1.8 - 2.2)
	OVER VOLTAGE	30 ~ 35 VDC
	OVER TEMPERATURE	
		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
	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)
AFETY & EMC	MOUNTING	In according to IEC60068-2-6
No. of Concession, Name	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
	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,
		The power supply is considered a component which will be installed into a final equipment.
THERS		The final equipment must be re-confirmed that it still meets EMC directives.
	MTBF IEC 61709	> 500.000 h
	DC OK AKTIV SIGNAL (max.)	20 ~ 30 VDC
	POLLUTION DEGREE	2
	CONNECTION TERMINAL BLOCK	2.5 mm Screw terminal (24 ~ 14 AWG)
	DIMENSION	55x110x105 mm ( 2.16x4.33x4.13 in )
	PACKING	0.50 kg (1.1 lbs) each



#### TB1 Terminal Pin. No Assignment

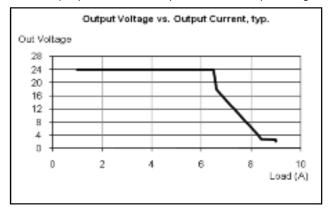
Pin No.	Assignment	
	(1 phase)	
1	N / AC	
2	L / AC	
2	FG⊕	

TB2	Terminal	Pin.	No	Assignment

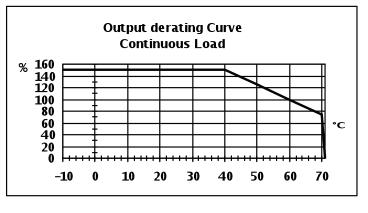
Pin No.	Assignment
	DC output -V
3,4	DC output +V
5,6	DC OK relay contacts

### **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  $20Vdc \pm 5\%$ .







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