PSC-480 Series



Input: 85-264VAC 47/63Hz Output Voltage: 24 & 48 V DC Rated Power: 480W max.











Power Factor (typical)

Inrush Current (Typical)

AC Current (max.)

Leakage Current

DC Output

Rated Current

Current Range

Ripple and Noise

Voltage ADJ. Range

Voltage Accuracy

Line Regulation

Load Regulation

Over temperature

Short Circuit

Set-up Time

Efficiency (Typical)

Voltage Range Frequency Range



Note 1





FEATURES

- Universal AC input range (85~264Vac)
- Support 1+1 or N+1 redundant system suggest to use redundancy modules.
- Built-in active PFC,PF>0.95
- · High efficiency up to 94%
- · Built-in current sharing function
- · Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-25°C~70°C)
- 150% (720W) peak load capacity

- · Easy Fuse Tripping due to High Overload Current
- · Built-in DC OK relay contact
- · Can be installed on 35 mm DIN rail
- 100% full load burn-in test
- · PCB with conformal coating
- · Suitable for critical applications
- · Ultra-slim,70mm width
- · Free air convection
- 3 years warranty

PSC-48048

93.5%

8V

10A

0~10A

≤480mV

≤480mV

48~56V

58~63V, constant voltage, Auto recovery

CATALOG NUMBER

INPUT

OUTPUT

PROTECTIONS

SAFETY & EMC

Note 3

OTHER

NOTES

PSC-48024

- 85Vac~264Vac, 120Vdc-375Vdc
- 47Hz~63Hz 0.99/110Vac 0.95/230Vac
- <7.0 A/100Vac <3.5A/230Vac <40A/230Vac Cold start <20A/110Vac Input—output: ≤0.25mA Input—PG: ≤3.5mA
- 93.8%

24V 20A 0~20A

0~70°C ≤240mV ≤480mV -25°C~0

24~28V ±3.0% ±0.5% ±1.0%

<3S@230Vac Hold up Time ≥20mS(230Vac input, Full load)

Temperature Coefficient ±0.03%/°C Overshoot <5.0%

ENVIRONMENTAL Operating amb. Temp. & Hum.

-25°C~70°C; 20%~90%RH No condensing Storage Temp. & Hum. -40°C~85°C; 5%~95%RH No condensing

Over voltage 28.8~33V, constant voltage, Auto recovery Over Load

110%~150% of rated current, Constant current limiting for some time(150% of rated current, last 3S) then PS stop working for 7S,after 7S, if the load <=rated current, PS will work normally, auto recovery 115±5°C, detect on temperature controller; shut down O/P, auto recovery after temperature goes down. Long-term mode, auto recovery

Safety Standards UL508, UL60950-1, EN62368-1

Primary-Secondary: 3.0KVac/10mA. Primary-PG: 2.5KVac/10mA. Secondary-PG:0.5KVac/20mA. Withstand Voltage Isolation Resistance 10M ohms

EMC Emission Compliance to EN55032 Class B Harmonic Current Compliance to EN61000-3-2, CLASS A **EMC Immunity** Compliance to EN61000-4-2,3,4,5,6,11;

MTBF (MIL-HDBK-217F) More than 300,000Hrs (25°C, Full load) 70 x 124 x 127mm Dimension (L*W*H)

Packing 10pcs/CTN, 13Kgs/CTN, 0.04cbm Cooling method Cooling by free air convection

- 1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature.
- 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor.
- 3. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies".

PSC-480 Series

Altech Corp.®

Mechanical Specification

1.AC terminal blocks installation information

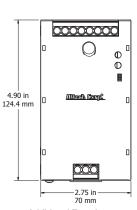
Terminal No.	Function	Specifications	
1	PG	6.35mm, 3pin	
2	N	screw terminal blocks	
3	L	screw terriiriai blocks	

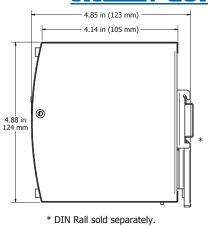
2.DC terminal blocks installation information

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Terminal No.	Function	Specifications
1	DC	
2	OK	6.35mm, 3pin
3-5	+V	screw terminal blocks
6-8	-V	Solow tomillal blocks

AC/DC Terminal

Туре	Screw terminal blocks
Solid Wire	0.5-6 mm ²
Strand Wire	0.5-4 mm ²
Wire Spec	AWG20-10 (PG wire >18AWG)
Max Wire Diameter	2.8mm
Recommended stripping length	7mm
Screwdriver	3.5mm Straight or Cross Screwdriver
Recommended Torque	1NM



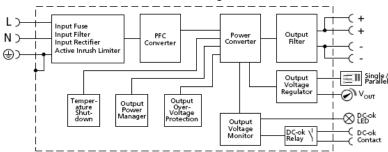


Additional Functions

Power boost	150% of rated current	
Parallel function	support	
DC-OK	V On: when output voltage is up to	
	90% of rated output voltage	
	V Off: when output voltage is down	
	to 80% of rated output voltage	
DC-OK relay contact rating	Max 30V/1A or 60V/0.3A or	
	30Vac/0.3A Resistive load	

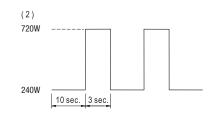
Block Diagram

Functional Diagram



Peak Loading





Derating Curve

PSC-48024Output Current versus Ambient Temperature

