PSC-120 Series



Input: 85-264VAC 47/63Hz Output Voltage: 12, 24 & 48 V DC Rated Power: 120W max.









- 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 92%
- · 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%(180W) peak load capacity

- Easy Fuse Tripping due to High Overload Current
- · Excellent Partial Load Efficiency
- · 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,32mm width
- · 3 years warranty

CATA	LOC	NIII	MDEE
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CB

Voltage Range

Frequency Range Power Factor (typical)

AC Current (max.)

Leakage Current

DC Output

Rated Current

Inrush Current (Typical)

Efficiency (Typical) @230Vac







INPUT

PSC-12012



85Vac~264Vac, 127Vdc-360Vdc

47Hz~63Hz

0.99/100Vac 0.95/230Vac

<1.3 A/100Vac <0.55A/230Vac

<60A/230Vac Cold start <30A/100Vac

Input—output: ≤0.25mA Input—PG: ≤3.5mA

89.5%

12V

8.33A

0~8.33A

≤100mV

 \leq 200mV

12~14V

91%

PSC-12024

24V

5A

0~5A

≤120mV

≤240mV

24~28V

≤240mV ≤240mV 48~56V

92%

48V

2.5A 0~2.5

PSC-12048

OUTPUT

Current Range Note 1 Ripple and Noise Note 2

Voltage ADJ. Range Voltage Accuracy

Line Regulation Load Regulation Set-up Time

Hold up Time Temperature Coefficient

±1.0% ±0.5% ±1.0%

0~70°C

-25°C~0

<250mS@230Vac ; <500mS@100Vac ≥20mS(230Vac input, Full load)

±0.03%/°C <5.0%

ENVIRONMENTAL

Operating amb. Temp. & Hum. Storage Temp. & Hum.

Overshoot

-25°C~70°C; 20%~90%RH No condensing -40°C~85°C; 5%~95%RH No condensing

PROTECTIONS

SAFETY & EMC

Note 3

Over voltage

15~18V

29~33V

58~65V

Over Load

Protection type: Hiccup mode, Auto recovery

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 100±5°C, detect on heat sink of power transistor; shut down O/P, auto recovery after temperature goes down.

Over temperature Long-term mode, auto recovery

Short Circuit

Safety Standards UL508, UL60950-1, EN62368-1 Withstand Voltage

Isolation Resistance

EMC Emission Harmonic Current **EMC Immunity**

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

Compliance to EN55032 Class B Compliance to EN61000-3-2, Class A

Compliance to EN61000-4-2,3,4,5,6,11;

OTHER

MTBF (MIL-HDBK-217F) Dimension (L*W*H)

More than 300,000Hrs (25°, Full load) 124 x 119 x 32mm

Packing Cooling method 28pcs/CTN,18.02Kgs, 0.04cbm Cooling by free air convection

NOTES

- 1. All parameters NOT specially mentioned are measured at rated input, rated load and 25° 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 quidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies".

PSC-120 Series

Mechanical Specification

AC/DC Terminal

Туре

Solid Wire

1.AC terminal blocks installation information

Terminal No.	Function	Wire Spec	Recommended
			Torque
1	L		
2	N	20~10AWG	1Nm
3	PG		

2.DC terminal blocks installation information			
Terminal No.	Function	Wire Spec	Recommended
			Torque
4 & 5	DC OK Relay Contact		
6	-V	20~10AWG	1Nm

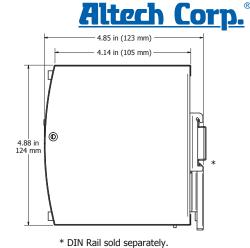
+V

Screw terminal blocks

0.5-6mm2

Additional Fallotions	
Power boost	150% of rated current
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
Parallel function	support

__1.25 in__ 31.75 mm 0000 0 4.88 in 123.952 mm



Additional Fu	unctions
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Strand Wire	0.5-4mm2	1
Wire Spec	AWG20-10 (PG wire >18AWG)	1
Max Wire Diameter	2.8mm	1
Recommended stripping length	7mm	DC OK re
Screwdriver	3.5mm Straight or Cross Screwdriver]
Recommended Torque	1NM	Parallel fu
Block Diagram	Fun	ctional Diagram

