PSC-75 Series



Input: 85-264VAC 47/63Hz Output Voltage: 12, 24 & 48 V DC Rated Power: 75W max.









Voltage Range Frequency Range

Power Factor (typical)

Inrush Current (Typical)

Efficiency (Typical) @230Vac

AC Current (max.)

Leakage Current



Ultra Compact

- Ultra Slim size
- Conformal coated PCB
- Parallel option available
- Universal input
- Three-year Warranty

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 91%
- Built-in current sharing function
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-25°~70°)
- 150% peak load capacity
- Easy Fuse Tripping due to High Overload Current

PSC-7548

48V

1.6A

0~1.6A

≤120mV ≤240mV

48~56V

- **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

CATALOG NUMBER

85Vac~264Vac, 127Vdc-360Vdc

47Hz~63Hz

PSC-7512

0.99/100Vac 0.95/230Vac

<0.95 A/100Vac <0.45A/230Vac

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

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

88%

PSC-7524

91%

OUTPUT

INPUT

DC Output Rated Current **Current Range** Note 1 Ripple and Noise 0~70°C Note 2 -25°C~0 Voltage ADJ. Range

Voltage Accuracy Line Regulation

Load Regulation Set-up Time Hold up Time

Temperature Coefficient ±0.03%/°C

Overshoot

12V 24V 6.3A 3.2A 0~6.3A 0~3.2A ≤100mV ≤120mV \leq 200mV ≤240mV 12~14V 24~28V

±0.5% ±1.0% <250mS@230Vac ; <500mS@100Vac

≥20mS(230Vac input, Full load)

<5.0%

±1.0%

ENVIRONMENTAL

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

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

PROTECTIONS

Over voltage

15~18V

29~33V

58~65V

Over Load

Protection type: Hiccup mode, Auto recovery

110%~150% of rated current, Constant power 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

Over temperature

Short Circuit

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

Long-term mode, auto recovery

SAFETY & EMC

Note 3

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

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

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;

OTHER

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

124 x 119 x 32mm 28pcs/CTN,17.6Kg, 0.04cbm Cooling by free air convection

Packing Cooling method

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

More than 300,000Hrs (25°C, Full load)

component power supplies'

NOTES

For the latest on Altech Power Supply specifications please visit www.altechcorp.com/power.

PSC-75 Series

1 AC terminal blocks installation information

Mechanical Specification

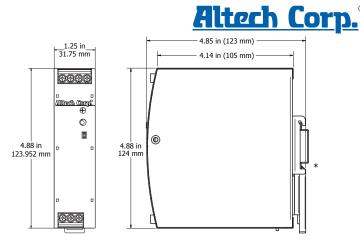
1.A0 termina blocks installation information				
Terminal No.	Function	Wire Spec	Recommended	
			Torque	
1	L			
2	N	20~10AWG	1Nm	
3	PG			

2.DC terminal blocks installation information

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Terminal No.	Function	Wire Spec	Recommended		
			Torque		
4 & 5	DC OK Relay Contact				
6	-V	20~10AWG	1Nm		
7	+V				

AC/DC Terminal

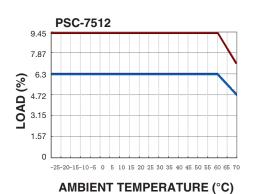
Туре	Screw terminal blocks	
Solid Wire	0.5-6mm2	
Strand Wire	0.5-4mm2	
Wire Spec	AWG20-10 (PG wire >18AWG)	
Max Wire Diameter	2.8mm	
Recommended stripping length	7mm	
Screwdriver	3.5mm Straight or Cross Screwdriver	
Recommended Torque	1NM	



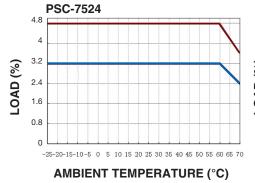
* DIN Rail sold separately.

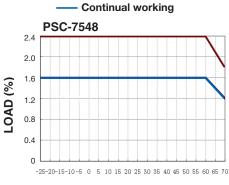
Power boost	150% of rated current
DC OK	V On: when output voltage is up to
	90% of rated output voltage
	V Off: when output voltage is down to
	80% of rated output voltage
DC OK relay contact rating	Max 30V/1A or 60V/0.3A or
	30Vac/0.3A Resistive load
Parallel function	support

Block Diagram Functional Diagram Input Fuse Input Filter Output Filter PFC Converte N > Power Converter Input Rectifier Active Inrush Limiter (1) Output Voltage Regulator Output Over-Voltage Protection Temper ature Shut-down Output Power ⊗ඎ⊗ Output Voltage Monitor DC-ok Contact **Peak Loading** (2) 112.5W 112.5W 75W 60W 100 sec. 3 sec. 10 sec. 3 sec.



Derating Curve





Peak Load, 3S max

AMBIENT TEMPERATURE (°C)

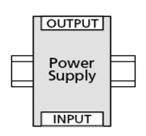
PSC-75 Series



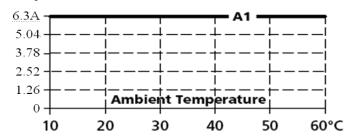
Mounting method instruction PSC-7512

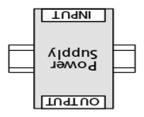
A1 is recommended output current.

A2 is the allowed max output current (PSU lifetime is around half of A1).

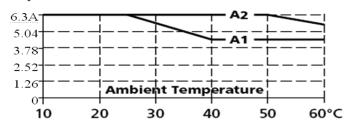


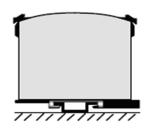
Output Current



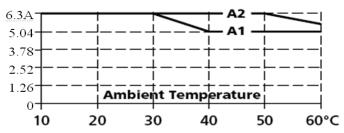


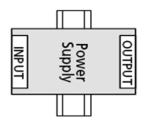
Output Current



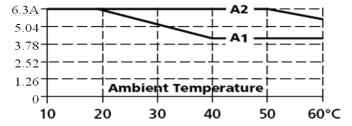


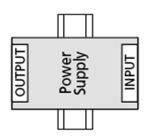
Output Current



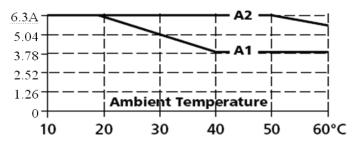


Output Current





Output Current

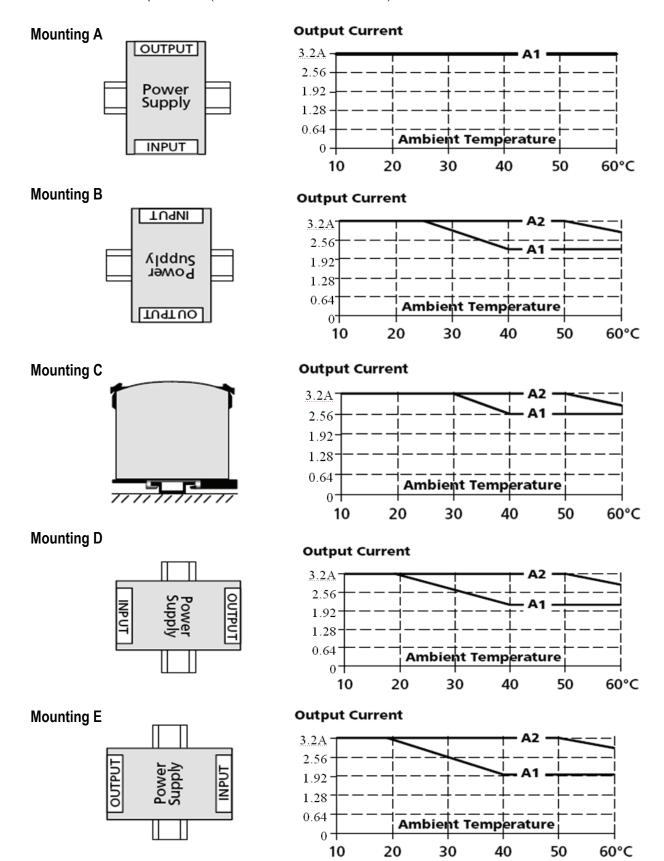




Mounting method instruction PSC-7524

A1 is recommended output current.

A2 is the allowed max output current (PSU lifetime is around half of A1).





Mounting method instruction PSC-7548

A1 is recommended output current.

A2 is the allowed max output current (PSU lifetime is around half of A1).

