

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** 

- **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**

### **PSC-7512**

85Vac~264Vac, 127Vdc-360Vdc

47Hz~63Hz

0.99/100Vac 0.95/230Vac <0.95 A/100Vac <0.45A/230Vac

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

Input—output: ≤0.25mA Input—PG: ≤3.5mA 88%

91%

#### **OUTPUT**

**INPUT** 

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

Line Regulation **Load Regulation** Set-up Time Hold up Time

Overshoot

Temperature Coefficient ±0.03%/°C

**PSC-7524** 

12V 24V 6.3A 3.2A 0~6.3A 0~3.2A  $\leq 100 mV$ ≤120mV ≤240mV  $\leq$ 200mV 12~14V 24~28V ±1.0%

1.6A 0~1.6A ≤120mV ≤240mV

48V

48~56V

<5.0%

±0.5%

±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

<250mS@230Vac; <500mS@100Vac

≥20mS(230Vac input, Full load)

#### **PROTECTIONS**

Over voltage

15~18V

29~33V

58~65V

Over Load

Over temperature

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

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

Short Circuit 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) **Packing** Cooling method

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

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

#### **NOTES**

- 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'

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

# Mechanical Specification

1.AC terminal blocks installation information

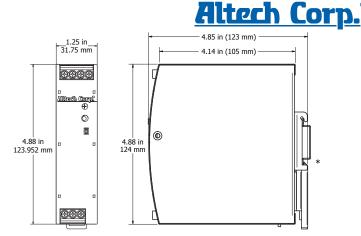
_	1.AC terminal blocks installation information			
	Terminal No.	Function	Wire Spec	Recommended
				Torque
	1	L		
	2	N	20~10AWG	1Nm
	3	PG		

2.DC terminal blocks installation information

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

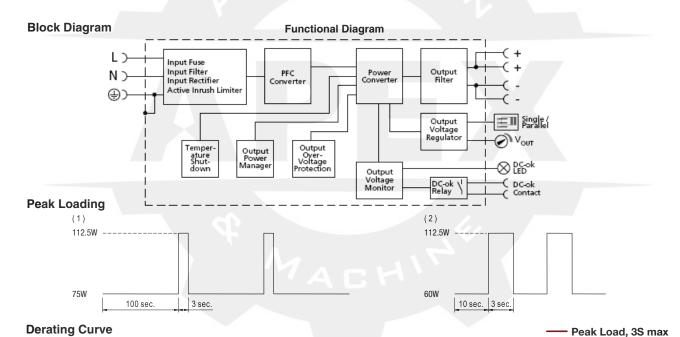
#### **AC/DC Terminal**

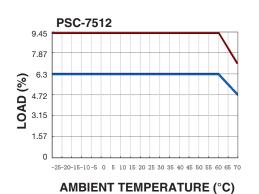
Туре	Screw terminal blocks	
Solid Wire	0.5-6mm2	
Strand Wire	0.5-4mm2	
Wire Spec	AWG20-10 (PG wire >18AWG)	
Max Wire Diameter	2.8mm	
Recommended stripping length	7mm	
Screwdriver	3.5mm Straight or Cross Screwdriver	
Recommended Torque	1NM	

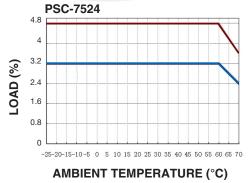


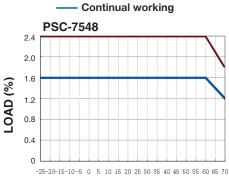
\* DIN Rail sold separately.

Power boost	150% of rated current
DC OK	V On: when output voltage is up to
	90% of rated output voltage
A 6	V Off: when output voltage is down to
IAT	80% of rated output voltage
DC OK relay contact rating	Max 30V/1A or 60V/0.3A or
<b>'</b>	30Vac/0.3A Resistive load
Parallel function	support









ENT TEMPERATURE (°C)

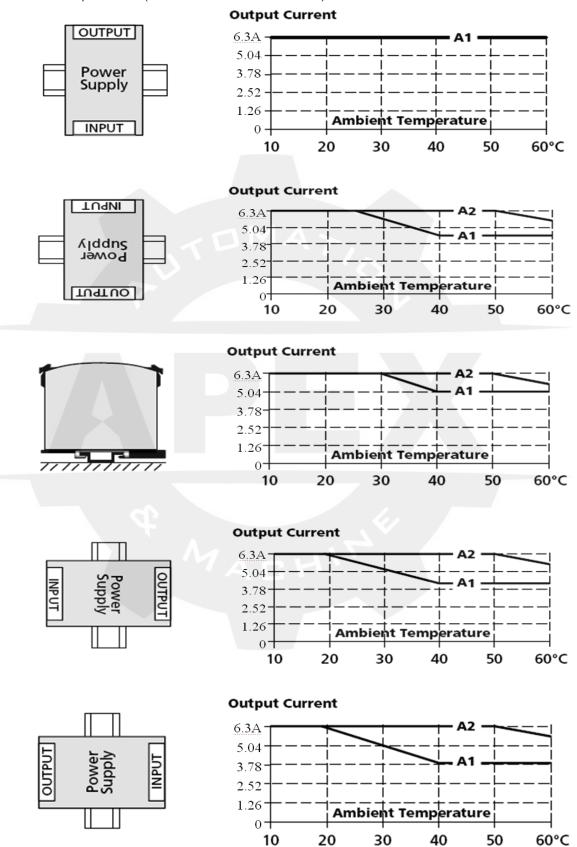
AMBIENT TEMPERATURE (°C)



## **Mounting method instruction PSC-7512**

A1 is recommended output current.

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

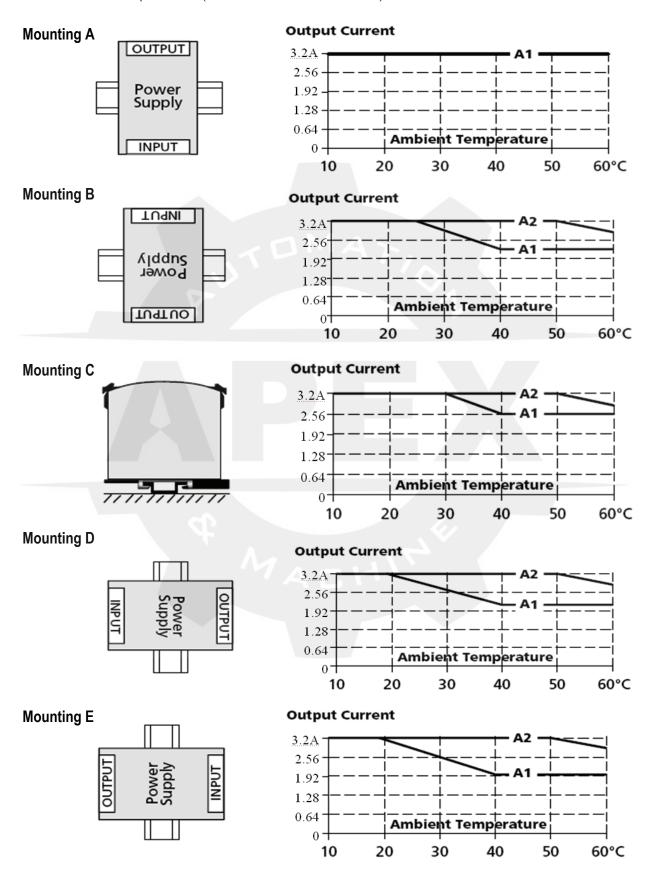




### **Mounting method instruction PSC-7524**

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).

