|                        | Input: 85-264VAC 47/63Hz<br>Output Voltage: 12, 24 & 48 V D<br>Rated Power: 75W max.   | Conformal coat Parallel option   | ted PCB<br>available<br>rranty  | (suggest to use redundancy modules.)<br>Built-in active PFC,PF>0.95<br>High efficiency up to 91%<br>Built-in current sharing function<br>Built-in current limiting circuit<br>Output protections: OVP/OLP/SCP/OTP<br>Wide operating ambient temp (-25°~70°)<br>150% peak load capacity<br>Easy Fuse Tripping due to High Overload Current<br>Excellent Partial Load Efficiency<br>Built-in DC OK relay contact<br>Can be installed on 35 mm DIN rail<br>100% full load burn-in test<br>PCB with conformal coating<br>Suitable for critical applications<br>Ultra-slim,32mm width<br>3 years warranty |
|------------------------|--|--|---|--|
| CATALOG NUMBER         |  | PSC-7512   | PSC-7524  | PSC-7548   |
| INPUT                  | Voltage Range<br>Frequency Range<br>Power Factor (typical)<br>AC Current (max.)<br>Inrush Current (Typical)<br>Leakage Current<br>Efficiency (Typical) @230Vac   | 85Vac~264Vac, 127Vdc-360Vdc<br>47Hz~63Hz<br>0.99/100Vac 0.95/230Vac<br><0.95 A/100Vac <0.45A/230Vac<br><30A/100Vac <60A/230Vac Cold<br>Input—output: ≤0.25mA Input—PG:<br>88%                  |   | 91%  |
| OUTPUT                 | DC Output<br>Rated Current<br>Current Range Note 1<br>Ripple and Noise 0~70°C<br>Note 2 -25°C~0<br>Voltage ADJ. Range<br>Voltage ADJ. Range<br>Voltage ACcuracy<br>Line Regulation<br>Load Regulation<br>Set-up Time<br>Hold up Time<br>Temperature Coefficient ±0.03%/°C<br>Overshoot | 12V     6.3A     0~6.3A     ≤100mV     ≤200mV     12~14V     ±1.0%     ±0.5%     ±1.0%     <250mS@230Vac ; <500mS@100Vac   | 24V<br>3.2A<br>0~3.2A<br>≤120mV<br>≤240mV<br>24~28V                             | 48V<br>1.6A<br>0~1.6A<br>≤120mV<br>≤240mV<br>48~56V  |
| ENVIRONMENTAL          | Operating amb. Temp. & Hum.<br>Storage Temp. & Hum.  | -25°C~70°C; 20%~90%RH No conde<br>-40°C~85°C; 5%~95%RH No conden   | 0   |  |
| PROTECTIONS            | Over voltage<br>Over Load<br>Over temperature<br>Short Circuit   | PS stop working for 7S,after 7S,if the lo  | t power limiting for som<br>ad <=rated current, PS                              | 58~65V<br>ne time(150% of rated current, last 3S) then<br>S will work normally, auto recovery<br>J/P, auto recovery after temperature goes down.   |
| SAFETY & EMC<br>Note 3 | Safety Standards<br>Withstand Voltage<br>Isolation Resistance<br>EMC Emission<br>Harmonic Current<br>EMC Immunity  | UL508, UL60950-1, EN62368-1<br>Primary-Secondary:3.0KVac/10mA .Prir<br>10M ohms<br>Compliance to EN55032 Class B<br>Compliance to EN61000-3-2, Class A<br>Compliance to EN61000-4-2,3,4,5,6,11 |   | A. Secondary-PG:0.5KVac/20mA.  |
| OTHER                  | MTBF (MIL-HDBK-217F)<br>Dimension (L*W*H)<br>Packing<br>Cooling method   | More than 300,000Hrs (25°C, Full load)<br>124 x 119 x 32mm<br>28pcs/CTN,17.6Kg, 0.04cbm<br>Cooling by free air convection  |   |  |
| NOTES                  | 2. Measured at 20MHz of bandwidth by 3. The power supply is considered as a  | ed are measured at rated input, rated load<br>using a 12" twisted pair-wire terminated w<br>component which will be installed into a fir<br>ctives. For guidance on how to perform the         | vith a 0.1 uF & 10uF pa<br>nal equipment. The final<br>ese EMC tests, please re | rallel capacitor.<br>I equipment must be<br>efer to "EMI testing of  |

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

#### FEATURES

- Universal AC input range(85~264Vac)
- Support 1+1 or N+1 redundant system (suggest to use redundancy modules.)

#### **Mechanical Specification**

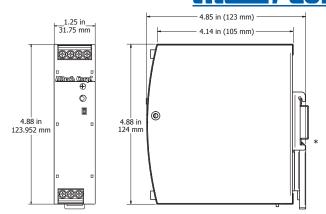
| Terminal No. | Function | Wire Spec | Recommended |
|--------------|----------|-----------|-------------|
|              |          |           | Torque      |
| 1            | L        |           |             |
| 2            | N        | 20~10AWG  | 1Nm         |
| 3            | PG       |   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

2.DC terminal blocks installation information

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

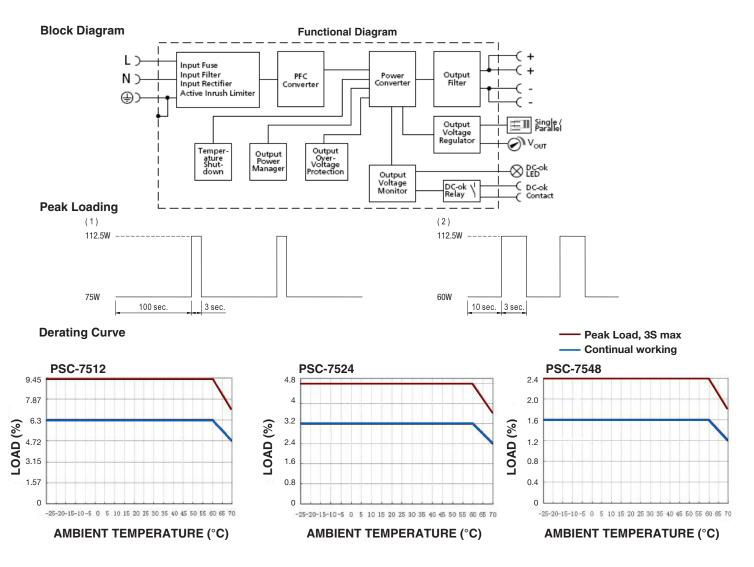
#### AC/DC Terminal

| 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                               |
|                            |                                       |



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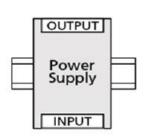


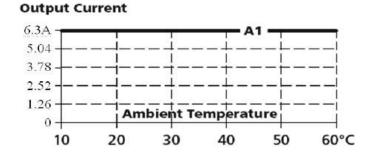
60°C

### Mounting method instruction PSC-7512

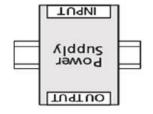
A1 is recommended output current.

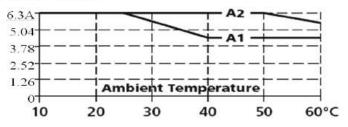
A2 is the allowed max output current (PSU lifetime is around half of A1).





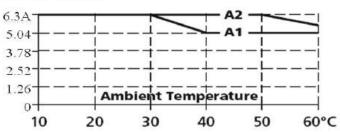
#### **Output Current**



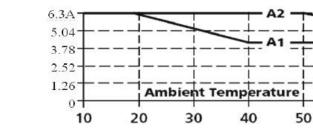


#### **Output Current**

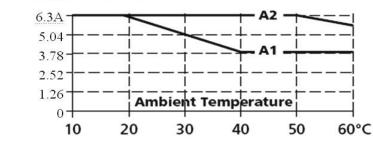


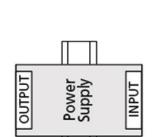


#### **Output Current**



#### **Output Current**





Supply

INPUT

Power

OUTPUT

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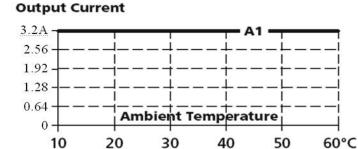
60°C

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

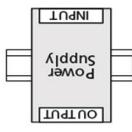
A1 is recommended output current.

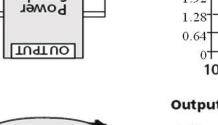
A2 is the allowed max output current (PSU lifetime is around half of A1).

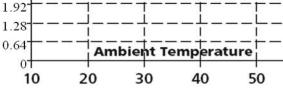
# Mounting A



Mounting **B** 







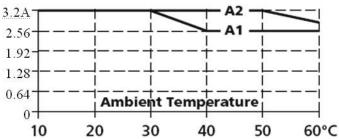
A2

A1

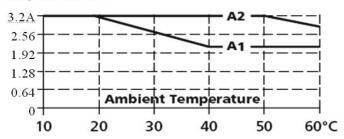
#### **Output Current**

**Output Current** 

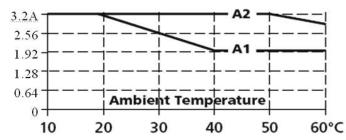
3.2A<sup>\*</sup> 2.56<sup>\*</sup>



#### **Output Current**



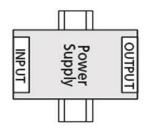
#### **Output Current**



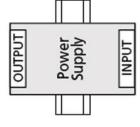


**Mounting D** 

Mounting C



Mounting E



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#### **Mounting method instruction PSC-7548**

A1 is recommended output current.

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

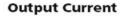
# Mounting A

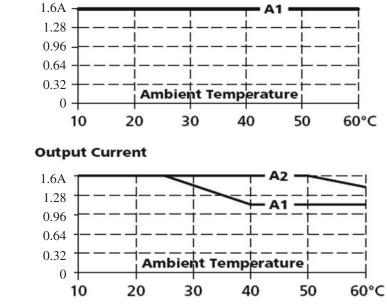
TU9NI

٨jddns

Power

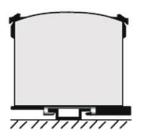
TUATUO



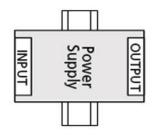




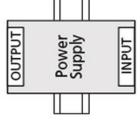
Mounting **B** 



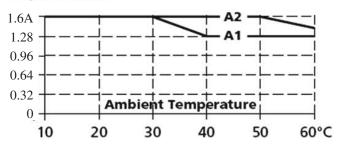
**Mounting D** 



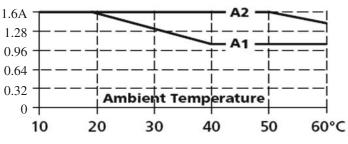




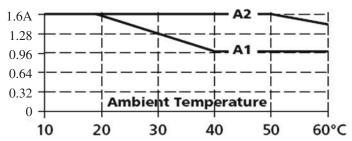
#### **Output Current**



#### **Output Current**



#### **Output Current**



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