# **PSC-151 Series**

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PSC-15148

E205412

# Features:

- Universal AC input (88-264V AC)
- Installed on DIN rail TS-35 / 7.5 or 15
- Built-in active PFC function, PF > 0.95 • 150% peak load capability
- 100% full load burn-in test
  Protection: SCP, OLP, OVP, OTP
- Two selectable peak load modes
- Built-in DC OK Relay contact
- Built-in Remote ON / OFF function •
- ٠ 3 years warranty
- UĹ 508

| OUTPUT       | Cat. No.  | PSC-15124  | PSC-15148   |
|--------------|---|--|---|
|              | DC VOLTAGE  | 24V  | 48V   |
|              | BATED CURRENT   | 6.3A   | 3.2A  |
|              | CURRENT RANGE   | 0~6.3A   | 0~3.2A  |
|              | RATED POWER   | 150W   | 150W  |
|              | PEAK CURRENT  | 9.45A  | 4.8A  |
|              | PEAK POWER  | 225W (3sec.)<br>3 seconds or 20% duty cycle max, and the average output power  | should not exceed the rate power.   |
|              | RIPPLE & NOISE (max)  | 240mVp-p   | 480mVp-p  |
|              |   | Ripple & hoise are measured at 2011/12 of bandwidth by using a 12  |   |
|              | VOLTAGE TOLERANCE   | $\pm 1.0\%$  | ±1.0%   |
|              | LINE REGULATION   | +0.5%  | +0.5%   |
|              | LOAD REGULATION   | +1.0%  | +1.0%   |
|              | SETUP RISE TIME   | 700ms 30ms / 230VAC / 115VAC at full load  | =   |
| INPUT        | HOLD UP TIME (Typ.)   | 16ms / 230VAC; 16ms / 115VAC at full load  |   |
|              | VOLTAGE RANGE   | 88 ~ 264VAC; 124 ~ 373VDC<br>Derating may apply in low input voltage. Please check the der   | ating curve for more details.   |
|              | FREQUENCY RANGE   | 47 ~ 63Hz  |   |
|              | POWER FACTOR(Typ.)  | 0.9 / 230VAC: 0.98 / 115VAC at full load   |   |
|              | EFFICIENCY (Tvp.)   | 87%  | 87%   |
|              | AC CURRENT (Tvp.)   | 2.0A / 115VAC: 1.0A / 230VAC   |   |
|              | INRUSH CURRENT (TVD.)   | 33A / 115VAC: 65A / 230VAC   |   |
| PROTECTION   | LEAKAGE CURRENT   | <1mA/ 240VAC   |   |
|              | OVERLOAD PROTECTION   | 105% ~ 150% rated output power for 3 sec and then shutdow<br>150% or greater rated power or short circuit is constant curre<br>If <i>O/P</i> drops to 40% output then it auto-recover 5 times; if fault            | vn in O/P with auto-recovery.<br>nt limiting.<br>It condition is not removed  |
|              | OVER VOLTAGE  | 29 ~ 33V<br>Protection type: Latch-off mode renower on to recover  | $\begin{array}{c c} \text{ for recover.} \\ \hline 56 \sim 65V \end{array}$   |
| ENVIRONMENT  | OVER TEMPERATURE  | 95 ±5°C (TSW: detect on heatsink of power die<br>Protection type: Shut down o/p voltage, recovers automatically  | 0 <b>de)</b><br>v after temperature goes down   |
|              | WORKING TEMP.   | -10 ~ +70°C (Refer to derating curve)<br>Installation clearance: 40mm from top, 20mm from bottom, 5r<br>permanently with full power. In case the adjacent device is a h  | nm from the left and right side are recommended when loaded<br>neat source, 15mm clearance is recommended.            |
|              | WORKING HUMIDITY  | 20 ~ 95% RH non-condensing   |   |
|              | STORAGE TEMP. / HUMIDITY  | -40 ~ +85°C, 10 ~ 95% RH   |   |
|              | TEMP. COEFFICIENT   | ±0.03% / °C (0 ~ 50°C)   |   |
| SAFETY & EMC | VIBRATION   | 10 ~ 500Hz, 2G 10min. / 1cycle, 60min. each a  | along X, Y, Z axes  |
|              | SAFETY STANDARDS<br>WITHSTAND VOLTAGE<br>ISOLATION RESISTANCE<br>EMI CONDUCTION & RADIATION<br>HARMONIC CURRENT | UL 508 / TUV EN 60950-1<br>I/P-0/P: 4242VDC, I/P-FG: 2121VDC, 0/P-FG: 7<br>I/P-0/P, I/P-FG, 0/P-FG: >100M Ohms / 500VD<br>EN55022 (CISPR22) Class B<br>EN61000-3-2, -3   | 07VDC, 0/P-DC 0K: 707VDC<br>C / 25°C / 70% RH   |
| OUTPUT       | EMS IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV<br>EN61204-3; heavy industry level; criteria A, ME<br>The power supply is considered a component which will instal<br>re-confirmed that it still meets EMC directives. | /50204; EN55024; EN61000-6-2; (EN50082-2);<br>EET SEMI F47<br>led into a final equipment. The final equipment must be |
|              | DC OK RELAY. CONTACT RATINGS (max)  | 60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A resist  | tive load   |
|              | DIMENSION   | 55 5v125 2v00 8 mm ///vHvD   |   |
|              | DACKING   | 0.72kg 120.2x33.0 mm (WAIAD)   |   |
|              |   | U.12NY, 12PUS / 12.0NY   |   |
|              | COOLING   | All parameters NOT specially mentioned are measured at 2201  | VAC input rated load and 25°C of ambient temperature  |
|              |   | יווי איי איין איין איין איין איין איין א   | איס וויףא, ומנט וטמט מוט בס ס סו מוושוכות נכוווףכומנטוס.  |
|              |   |  |   |

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

# **PSC-151 Series**

Altech Corp.

PSC Class 2 Series Compact Housing

### **Mechanical Specification**

Terminal Pin No. Assignment (TB1)
Pin NO. Assignment

| 1 | FG 🕀 |  |
|---|------|--|
| 2 | AC/L |  |
| 3 | AC/N |  |

Terminal Pin No. Assignment (TB2)

| Pin NO. | Assignment    |
|---------|---------------|
| 1       | DC+           |
| 2       | DC-           |
| 3       | INH+          |
| 4       | INH-          |
| 5,6     | Relay Contact |

#### Switch No. Assignment

| SW NO. | Assignment            |
|--------|-----------------------|
| SW1    | PEAK LOAD SETTING     |
| SW2    | REMOTE ON/OFF SETTING |



Unit : mm / inch

#### 

99.8

## **Block Diagram**



### **DC OK Relay Contact**

| Contact Close         | When the output voltage reaches the adjusted output voltage. |
|-----------------------|--|
| Contact Open          | When the output voltage drop below 45% rated output voltage. |
| Contact Ratings(max.) | 30V/1A resistive load  |

Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

Appendix

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech: <u>PSC-15148</u> <u>PSC-15124</u>