



PSC-151 Series



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
- 3 years warranty
- UL 508

OUTPUT

Cat. No.

PSC-15124

PSC-15148

DC VOLTAGE
RATED CURRENT
CURRENT RANGE
RATED POWER
PEAK CURRENT
PEAK POWER

24V
6.3A
0~6.3A
150W
9.45A
225W (3sec.)

48V
3.2A
0~3.2A
150W
4.8A

3 seconds or 20% duty cycle max. and the average output power should not exceed the rate power.

240mVp-p

480mVp-p

Ripple & Noise (max)
VOLTAGE ADJ. RANGE
VOLTAGE TOLERANCE

-2% ~ +8%
±1.0%

-2% ~ +8%
±1.0%

LINE REGULATION
LOAD REGULATION
SETUP, RISE TIME
HOLD UP TIME (Typ.)

±0.5%
±1.0%
700ms, 30ms / 230VAC / 115VAC at full load
16ms / 230VAC; 16ms / 115VAC at full load

±0.5%
±1.0%

INPUT

VOLTAGE RANGE
FREQUENCY RANGE
POWER FACTOR(Typ.)
EFFICIENCY (Typ.)
AC CURRENT (Typ.)
INRUSH CURRENT (Typ.)
LEAKAGE CURRENT

88 ~ 264VAC; 124 ~ 373VDC
Derating may apply in low input voltage. Please check the derating curve for more details.
47 ~ 63Hz
0.9 / 230VAC; 0.98 / 115VAC at full load
87%
2.6A / 115VAC; 1.3A / 230VAC
33A / 115VAC; 65A / 230VAC
<1mA/ 240VAC

87%

PROTECTION

OVERLOAD

Normally works within 105% ~ 150% rated output power for more than 3sec and then shutdown O/P voltage with outo-recovery, > 150% rated power or short circuit is constant current limiting, if o/p drop to 40% rating output voltage then shutdown and auto-recover 5 time, if fault condition not remove in this 5 time, the system well be shutdown and re-power on to recover.

OVER VOLTAGE

29 ~ 33V

56 ~ 65V

OVER TEMPERATURE

Protection type: Latch-off mode, repower on to recover.
95 ±5°C (TSW: detect on heatsink of power diode)
Protection type: Shut down o/p voltage, recovers automatically after temperature goes down

ENVIRONMENT

WORKING TEMP.
WORKING HUMIDITY
STORAGE TEMP. / HUMIDITY
TEMP. COEFFICIENT
VIBRATION

-10 ~ +70°C (Refer to derating curve)
Installation clearance: 40mm from top, 20mm from bottom, 5mm from the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.
20 ~ 95% RH non-condensing
-40 ~ +85°C, 10 ~ 95% RH
±0.03% / °C (0 ~ 50°C)
10 ~ 500Hz, 2G 10min. / 1cycle, 60min. each along X, Y, Z axes

SAFETY & EMC

SAFETY STANDARDS
WITHSTAND VOLTAGE
ISOLATION RESISTANCE
EMI CONDUCTION & RADIATION
HARMONIC CURRENT
EMS IMMUNITY

UL 508 / TUV EN 60950-1
I/P-O/P: 4242VDC, I/P-FG: 2121VDC, O/P-FG: 707VDC, O/P-DC OK: 707VDC
I/P-O/P, I/P-FG, O/P-FG: >100M Ohms / 500VDC / 25°C / 70% RH
EN55022 (CISPR22) Class B
EN61000-3-2, -3
Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024; EN61000-6-2; (EN50082-2); EN61204-3; heavy industry level; criteria A, MEET SEMI F47
The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that is still meets EMC directives.

OTHERS

DC OK RELAY. CONTACT RATINGS (max)
MTBF
DIMENSION
PACKING
COOLING

60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A resistive load
62.7K HRS (MIL-HDBK-217F)
55.5x125.2x99.8 mm (WxHxD)
0.9kg; 12pcs / 12.8kg
Free air convection
All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.