



PSC-10 Series



Features:

- Universal AC input (88-264V AC)
- Protections: Short Circuit / Overload / Overvoltage
- Brown-out protection
- Installed on DIN rail TS35 / 7.5 or 15
- True DC OK signal output
- All wiring 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- Withstands 2G vibration test
- High efficiency, long life and high reliability
- 3 year warranty
- UL1310 Class 2 Power unit / LPS pass
- UL508 (Industrial control equipment) listed

OUTPUT

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

OUTPUT

Cat. No.

PSC-1012

PSC-1015

PSC-1024

DC VOLTAGE
RATED CURRENT
CURRENT RANGE
RATED POWER
RIPPLE & NOISE (max)

12V
0.84A
0~0.84A
10.08W
100mVp-p

15V
0.67A
0~0.67A
10.05W
100mVp-p

24V
0.42A
0~0.42A
10.08W
120mVp-p

Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor

VOLTAGE ADJ. RANGE
VOLTAGE TOLERANCE

10.8~13.2V
±1.0%

13.5~16.5V
±1.0%

21.6~26.4V
±1.0%

Tolerance: includes set up tolerance, line regulation and load regulation.

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

±1.0%
±1.0%
< 800ms, < 100ms/230V AC at full load
> 32ms / 230V AC; > 16ms / 115V AC at full load

±1.0%
±1.0%
±1.0%

±1.0%
±1.0%

VOLTAGE RANGE

88V~264VAC; 124V~370VDC

Derating may be needed under low input voltages. Please check the derating curve for more details.

FREQUENCY RANGE

47~63Hz

EFFICIENCY (Typ.)

81%

81%

81%

AC CURRENT (Typ.)

0.23A/115VAC; 0.17A/230VAC

INRUSH CURRENT (Typ.)

15A / 115V AC; 30A / 230V AC

LEAKAGE CURRENT

< 1mA/ 230VAC

OVERLOAD PROTECTION

> 102% rated output power

OVERVOLTAGE PROTECTION

Protection type: Constant current limiting, recovers automatically after fault condition is removed.

115%~150% rated output voltage

OVER TEMPERATURE PROTECTION

Protection type: Latch-off mode.

Power supply shut down at 70°C constant current limiting / output voltage goes to 0; re-power on to recover

WORKING TEMP.

-20 ~ +70°C (Refer to output load derating curve)

WORKING HUMIDITY

20 ~ 90% RH non-condensing

STORAGE TEMP. / HUMIDITY

-40 ~ +85°C; 10 ~ 95% RH

TEMP. COEFFICIENT

±0.03% / °C (0 ~ 50°C)

VIBRATION

10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes

SAFETY STANDARDS

UL508, TUV EN60950-1:2006+A11, UL1310 NEC class 2 compliant

WITHSTAND VOLTAGE

I/P-O/P: 3KVAC (4242DC) I/P-FG: 1.5KVAC (2121DC) 1 minute

ISOLATION RESISTANCE

I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC

EMI CONDUCTION & RADIATION

EN55022:2006+A1:2007 Class B

HARMONIC CURRENT

EN61000-3-2:2006 Class A, EN61000-3-3:2008

EMS IMMUNITY

EN61204-3:2000, EN55024:1998+A1:2001+A2:2003 light industry level, criteria A

The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

DC OK Signal

Open collector. Max: 40mA

MTBF

562.7K hrs MIL-HDBK-217K

DIMENSION

23x90x99 mm (WxHxD)

PACKING

0.13Kg/48 pcs. / 7.44Kg

CONNECTION

I/P 3 poles, O/P: 3 poles screw DIN terminal

COOLING

Free air convection

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.

Mechanical Specification

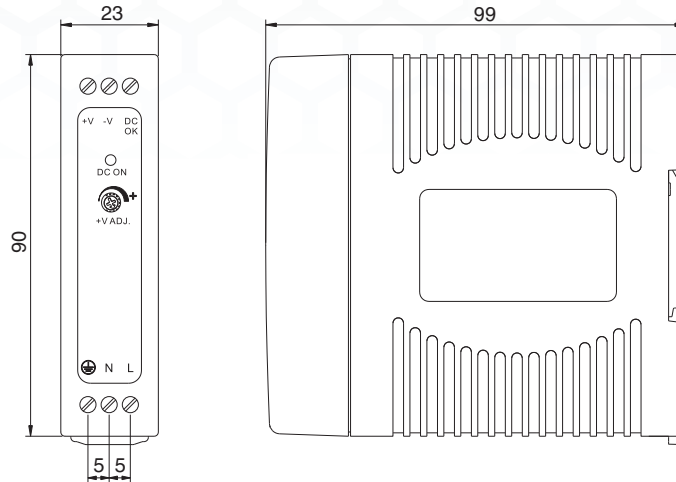
Unit : mm / inch

Terminal Pin. No Assign. (TB1)

Pin No.	Assignment
1	FG
2	AC/N
3	AC/L

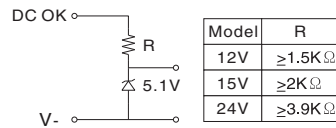
Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
4	DC OUTPUT +V
5	DC OUTPUT -V
6	DC OK SIGNAL

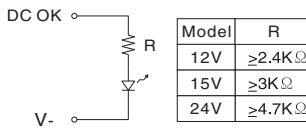


Application of DC OK Active Signal

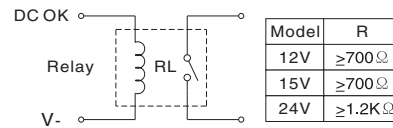
(a) 5V signal



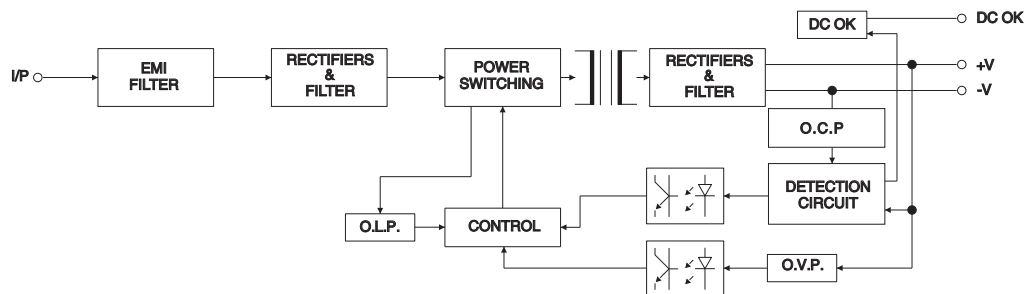
(b) LED



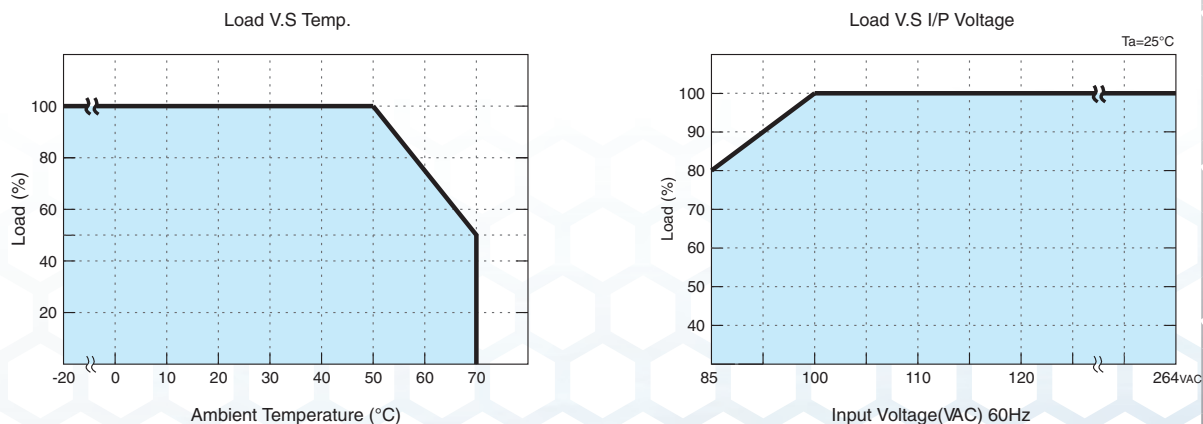
(c) Relay



Block Diagram



Derating Curve



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

Mouser Electronics

Authorized Distributor

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