



PSC-60 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

OTHERS

Cat. No. PSC-6012 PSC-6015 PSC-6024 PSC-6048

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

12V
5A
0 ~ 5A
60W
100mVp-p

15V
4A
0 ~ 4A
60W
100mVp-p

24V
2.5A
0 ~ 2.5A
60W
120mVp-p

48V
1.25A
0 ~ 1.25A
60W
180mVp-p

VOLTAGE ADJ. RANGE
VOLTAGE TOLERANCE

10.8 ~ 13.2V
±1.0%

13.5 ~ 16.5V
±1.0%

21.6 ~ 26.4V
±1.0%

43.2 ~ 52.8V
±1.0%

LINE REGULATION
LOAD REGULATION
SETUP, RISE TIME

±1.0%
±1.0%

±1.0%
±1.0%

±1.0%
±1.0%

±1.0%
±1.0%

HOLD UP TIME (Typ.)

< 800ms, < 50ms / 230VAC at full load
Length of set up time is measured at sold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
> 32ms / 230VAC; >16ms / 115VAC at full load

VOLTAGE RANGE

88 ~ 264VAC; 124 ~ 370VDC
Derating may apply in low input voltage. Please check the derating curve for more details.

FREQUENCY RANGE

47~63Hz

EFFICIENCY (Typ.)

86%

87%

87%

88%

AC CURRENT (Typ.)

1.3 A / 115VAC; 0.6A / 230VAC

INRUSH CURRENT (Typ.)

COLD START 30A / 115VAC; 60A / 230VAC

LEAKAGE CURRENT

<1mA / 230VAC

OVER LOAD PROTECTION

> 102% rated output power
Protection type: Constant current limiting, recovers automatically after fault condition is removed

OVER VOLTAGE PROTECTION

115% ~ 150% rated output voltage
Protection type: latch-off mode

OVER TEMPERATURE PROTECTION

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: 4242DC, I/P-FG: 2121DC 1minute

ISOLATION RESISTANCE

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

EMI CONDUCTION & RADIATION

EN55022: 2006 Class B

HARMONIC CURRENT

EN61000-3-2: 2006 Class A, EN61000-3-3: 1995+A1: 2001+A2: 2005

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

Relay contact (24VDC / 1A, 120VAC / 1A)

MTBF

944.6K HRS MIL-HDBK-217F

DIMENSION

40x90x99 mm (WxHxD)

PACKING

0.3kg; 27pcs / 9.3kg

CONNECTION

I/P: 3 poles, O/P: 6 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

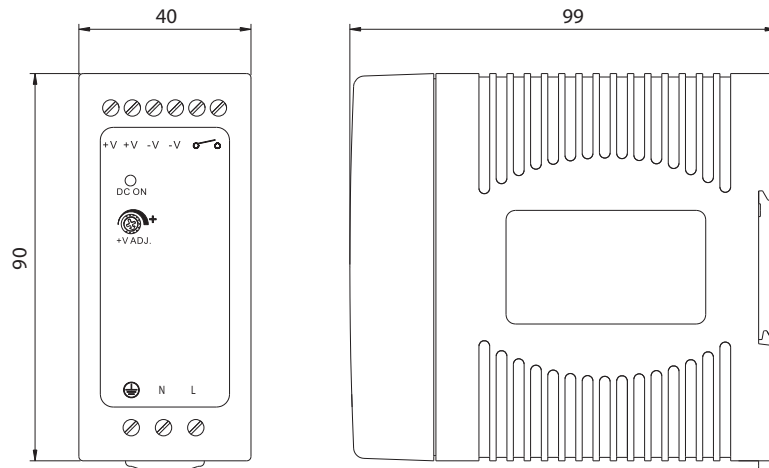
Unit : mm / inch

Terminal Pin. No Assign. (TB1)

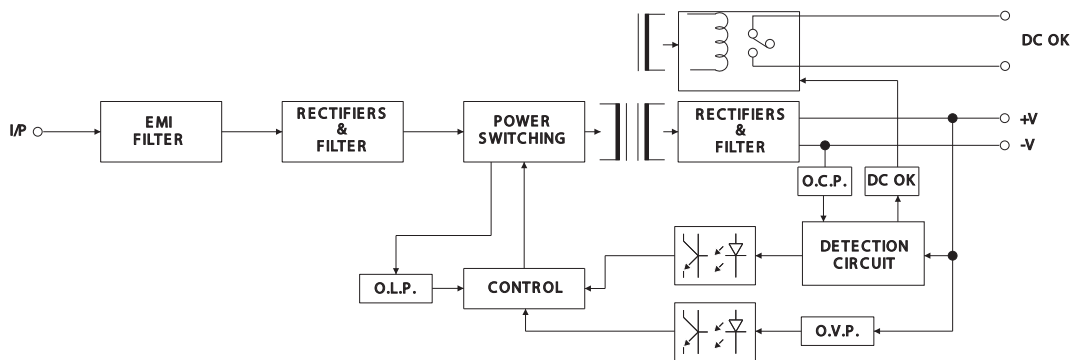
Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	DC OK RELAY CONTACT



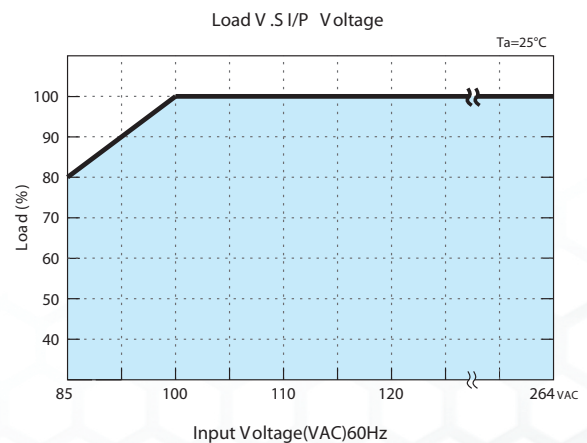
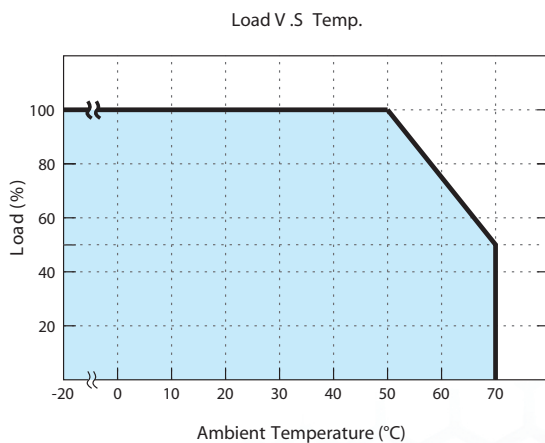
Block Diagram



DC OK Relay Contact

Contact Close	When the output voltage reaches the adjusted output voltage
Contact Open	When the output voltage drop below 90% rated output voltage
Contact Ratings (max.)	30V / 1A resistive load

Derating Curve



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