



PS-S60 Series Specifications



Features:

- Universal AC input/full range
- Protections: Short Circuit / Overload / Overvoltage
- Cooling by free air convection
- DIN rail mountable
- LED indicator for power on
- No load power consumption < 0.75W
- 100% full load burn-in test
- 3 year warranty

OUTPUT

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

Cat. No.	PS-S6005	PS-S6012	PS-S6024	PS-S6048
DC VOLTAGE	5V	12V	24V	48V
RATED CURRENT	10A	5A	2.5A	1.25A
CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A	0 ~ 1.25A
RATED POWER	50W	60W	60W	60W
RIPPLE & NOISE (max)	80mVp-p	120mVp-p	150mVp-p	200mVp-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	5 ~ 6V	12 ~ 15V	24 ~ 30V	48 ~ 56V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%
Tolerance: includes set up tolerance, line regulation and load regulation.				
LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.5%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	500ms, 30ms/230VAC; 500ms, 30ms/115VAC at full load			
Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.				
HOLD UP TIME (Typ.)	50ms/230VAC / 20ms/115VAC at full load			
VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC			
FREQUENCY RANGE	47~63Hz			
EFFICIENCY (Typ.)	78%	86%	88%	87%
AC CURRENT (max)	1.8A/115VAC; 1A/230VAC			
INRUSH CURRENT (Typ.)	COLD START: 30A/115VAC; 60A/230VAC			
LEAKAGE CURRENT	≤1mA/ 240VAC			
OVERLOAD PROTECTION	105% ~ 150% rated output power			
Protection type: Constant current limiting, recovers automatically after fault condition is removed				
OVERVOLTAGE PROTECTION	6.25 ~ 7.25V	15.6 ~ 18V	31.2 ~ 36V	57.6 ~ 64.8V
Protection type: Shut down overvoltage, re-power on to recover				
OVER TEMPERATURE PROTECTION	Power supply shut down at 70°C constant current limiting / output voltage goes to 0;			
re-power on to recover				
DC OK AKTIV SIGNAL (max.)	Relay contact rating (max.): 30V/1A resistive			
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	Component: 10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes			
MOUNTING	Compliance to IEC60068-2-6			
SAFETY STANDARDS	UL508 EN60950-1 compliant			
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: ≥100M Ohms/500VDC (25°C; 70% RH)			
EMI CONDUCTION & RADIATION	Compliance to EN55011 EN55022 (CISPR22) EN61204-3 Class B			
HARMONIC CURRENT	Compliance to EN61000-3-2,-3			
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024; ENV50204; EN61000-6-2; EN61204-3; light industry level; criteria A			
The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.				
MTBF	299.2K hrs min. MIL-HDBK-217K (25°C)			
DIMENSION	40x90x100mm (WxHxD)			
PACKING	0.33Kg; 42pcs / 14.8Kg / 0.82CUFT			
All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature				

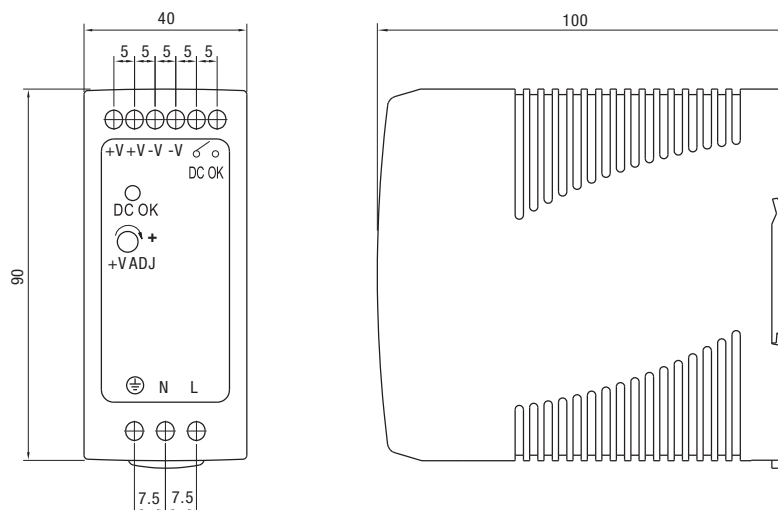
Mechanical Specification

Terminal Pin. No Assign. (TB1)

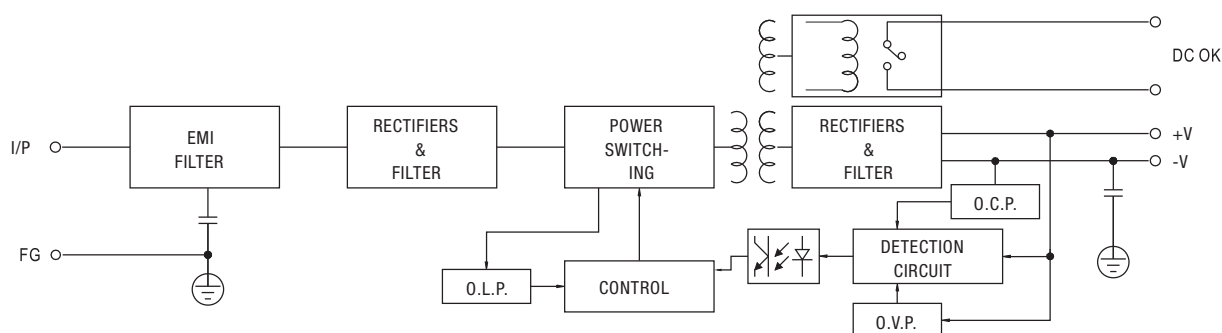
Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

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



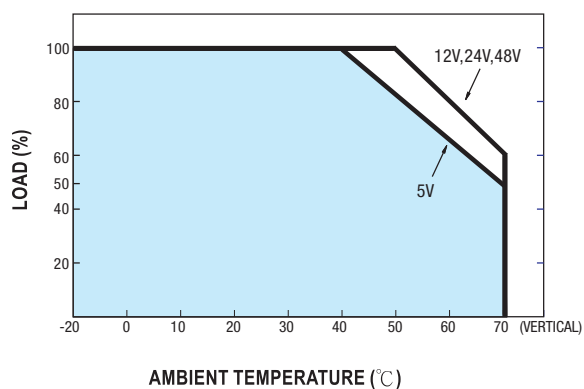
Block Diagram



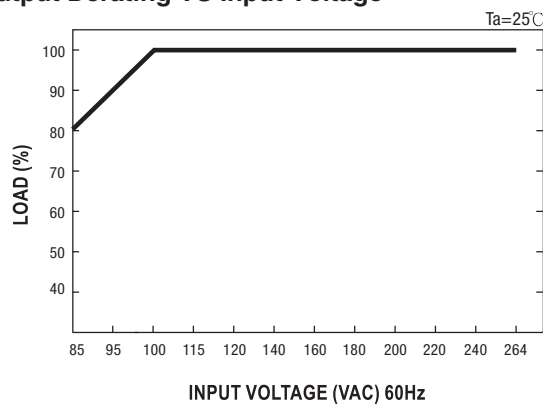
DC OK Relay Contact

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

Derating Curve



Output Derating VS Input Voltage



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