



# **PS-S60 Series Specifications**









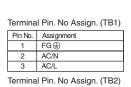


#### Features:

- Universal AC input/full rangeProtections: 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	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 meas	ured at cold first start. Turning C	N/OFF the power supply may lead	to increase of the set up time.	
INPUT	HOLD UP TIME (Typ.)	50ms/230VAC / 20ms/115VAC at full load				
	VOLTAGE RANGE		- 370VDC			
	FREQUENCY RANGE	47~63Hz	1	1		
	EFFICIENCY (Typ.)	78%	86%	88%	87%	
	AC CURRENT (max)	1.8A/115VAC; 1A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START: 30A/115VAC; 60A/230VAC				
PROTECTION	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 ov	ervoltage, re-power on to recove	er		
	OVER TEMPERATURE PROTECTION	Power supply shut down at 70°C constant current limiting / output voltage goes to 0;				
ENVIRONMENT	DC OK AKTIV SIGNAL (max.)	re-power on to recover 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				
SAFETY & EMC	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				
OTHERO		The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed				
<u>OTHERS</u>		that it still meets EMC directive				
	MTBF	299.2K hrs min. MIL	, ,			
	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				
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# **Mechanical Specification**

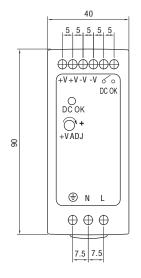


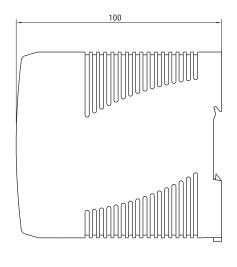
 Pin No.
 Assignment

 1,2
 DC OUTPUT +V

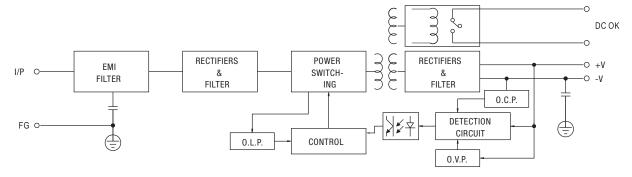
 3,4
 DC OUTPUT -V

 5,6
 DC OK RELAY CONTACT





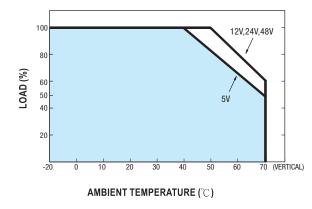
#### **Block Diagram**



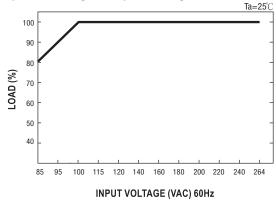
## **DC OK Relay Contact**

	Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open When the output		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.