

# **PS-100 Series Specifications**











#### Features:

- Universal AC input / full range
- Protections: Short Circuit / Overload / Over Voltage / Overtemperature
- Cooling by free air convection
- DIN rail mountable
- Isolation class II
- LED indicator for power on
- No load power consumption <1W
- 100% full load burn-in test
- 3 year warranty

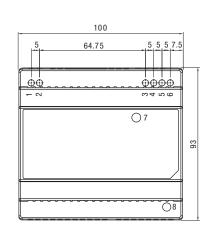
OUTPUT	Cat. No.	PS-10012	PS-10015	PS-10024	
	DC VOLTAGE	12V	15V	24V	
	RATED CURRENT	7.5A	6.5A	4.2A	
	CURRENT RANGE	0 ~ 7.5A	0 ~ 6.5A	0 ~ 4.2A	
	RATED POWER	90W	97.5W	100.8W	
	RIPPLE & NOISE (max)	120mVp-p	120mVp-p	150mVp-p	
	. ,	Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.			
	VOLTAGE ADJ. RANGE	12 ~ 15V	15 ~ 18V	24 ~ 29V	
	VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	
	LINE DECLINATION	Tolerance: includes set up tolerance, line regulatio		1 00/	
	LINE REGULATION	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	
INDUT	SETUP, RISE TIME	•	, 80ms / 115VAC at full load		
INPUT	HOLD UP TIME (Typ.)	50ms / 230VAC 18ms / 115VAC at full load			
	VOLTAGE RANGE FREQUENCY RANGE	88 ~ 264VAC 124 ~ 370VDC [ Connect AC/L(+), AC/N(-) ] 47 ~ 63Hz			
	EFFICIENCY (Typ.)	87%	87%	89%	
	AC CURRENT (max.)		A / 230VAC	0070	
PROTECTION	INRUSH CURRENT (Typ.)		230VAC		
MOTEOTION	(31)	(21)			
	OVERLOAD	105 ~ 135% rated output power			
		Protection type: Constant current limiting recovers automatically after fault condition is removed  Under short circuit or overload ≥ 150% conditions, output voltage may shut down for 5 sec. and then go into constant			
		current protection mode	,	<b>3</b>	
	OVERVOLTAGE	16 ~ 20V	19 ~ 23V	30 ~ 35V	
ENVIRONMENT		Protection type: Shut down overvoltage, re-power	on to recover		
	OVERTEMPERATURE $90^{\circ}\text{C} \pm 15^{\circ}\text{C}$ (RTH2) detect on heat sink of power transistor Protection type: Shut down overvoltage, re-power on to recover				
	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 & EMC	MOUNTING	Compliance to IEC60068-2-6			
	SAFETY STANDARDS	UL60950-1			
		EN60950-1 compliant			
		Design refer to EN50178			
	WITHSTAND VOLTAGE	I/P-0/P: 3KVAC			
	ISOLATION RESISTANCE	I/P-0/P: 100M Ohms/500VDC (25°C; 70% RH)			
	EMI CONDUCTION & RADIATION				
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3			
		Harmonic current test @ 90% load			
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024; EN61000-6-2; EN61204-3;			
		heavy 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			
OTHERS	1	that it still meets EMC directives.			
	MTBF	486K hrs min. MIL-HDBK-217K (25	°C)		
	DIMENSION	100x93x56mm (WxHxD)			
	PACKING	0.35Kg; 36pcs / 13.6Kg / 0.89CUFT			
	NOTE	All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.			
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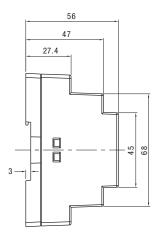


### **Mechanical Specification**

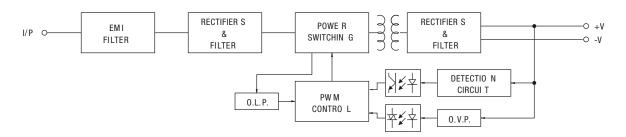
Terminal Pin. No Assignment

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Pin No	Assignment	Pin No.	Assignment			
1	AC/L	5,6	-V			
2	AC/N	7	LED			
3.4	±V/	8	±V AD.I			

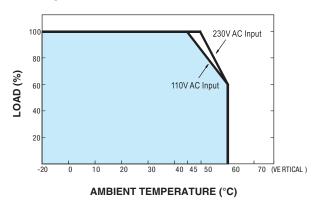




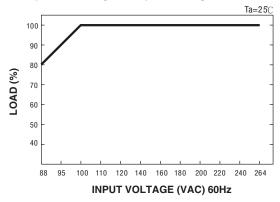
### **Block Diagram**



### **Derating Curve**



## **Output Derating VS Input Voltage**



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

