

PS-S40 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 DC OK relay contact No load power consumption < 0.75W
- 100% full load burn-in test
- 3 year warranty

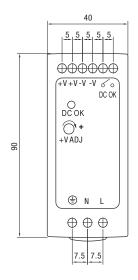
OUTPUT	Cat. No.	PS-S4005	PS-S4012	PS-S4024	PS-S4048	
	DC VOLTAGE	5V	12V	24V	48V	
	RATED CURRENT	6A	3.33A	1.7A	0.83A	
	CURRENT RANGE	0~6A	0~3.33A	0~1.7A	0~0.83A	
	RATED POWER	30W	40W	40.8W	39.8W	
	RIPPLE & NOISE (max)	80mVp-p	120mVp-p	150mVp-p	200mVp-p	
		Ripple & noise are measured at 20	MHz of bandwidth by using a 12 twis	ted pair-wire terminated with a 0.1µ	ιF & 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 tolera	nce, line regulation and load regula	tion.		
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	500ms, 30ms/230VAC;	500ms, 30ms/115VAC at fu	ill load	1	
	i i	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.				
INPUT	HOLD UP TIME (Typ.)	50ms/230VAC; 20ms/11	5VAC at full load			
	VOLTAGE RANGE	85~264VAC 120~370	OVDC			
	FREQUENCY RANGE	47~63Hz				
	EFFICIENCY (Typ.)	78%	86%	88%	88%	
	AC CURRENT (max)	1.1A/115VAC; 0.7A/230V	/AC			
	INRUSH CURRENT (Typ.)	COLD START: 30A/115VAC; 60A/230VAC				
PROTECTION	LEAKAGE CURRENT	≤1mA/ 240VAC				
	OVERLOAD PROTECTION	105% ~ 150% rated ou				
	OVERVOLTAGE PROTECTION	6.25~7.25V	t limiting, recovers automatically aft 15.6~18V	er fault condition is removed 31.2~36V	57.6~64.8V	
	OVER TEMPERATURE PROTECTION	Protection type: Shut down overvoltage, re-power on to recover 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 (ma	x.): 30V/ 1A resistive			
	WORKING TEMP.	-20 ~ +70°C (Refer to o	utput load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-cond				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03% °C (0 ~ 50°C)				
	VIBRATION		z, 2G 10min. / 1cycle, 60 m	in. each long X,Y, Z axes		
SAFETY & EMC	MOUNTING	Compliance to IEC60068	3-2-6	3 , ,		
	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				
	EMS IMMUNITY	Compliance to EN61000	-4-2,3,4,5,6,8,11; EN5502	4; ENV50204 ; EN61000-	6-2; EN61204-3;	
		light industry level; crite				
OTHERC			a component which will installed in	to a final equipment. The final equ	uipment must be re-confirmed	
OTHERS		that it still meets EMC directives				
	MTBF	301.7K hrs min. MIL-H	HDBK-217K (25°C)			
	DIMENSION	40x90x100mm (WxHxD)				
	PACKING	0.3Kg; 42pcs / 13.6 Kg / 0.82CUFT				
		All parameters NOT specially me	entioned are measured at 230V AC i	nput, rated load and 25°C of ambi	ent temperature.	

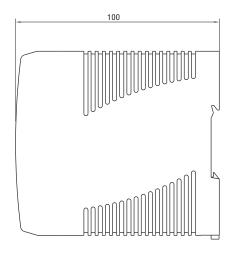
Mechanical Specification



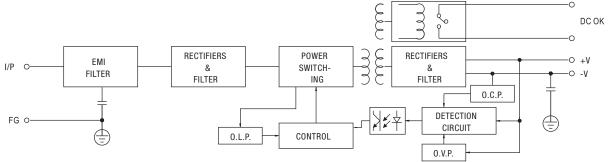
Terminal Pin. No Assign. (TB2)

Terrilliai Firi. No Assign. (TD2)					
Pin No.	Assignment				
1,2	DC OUTPUT +V				
3,4	DC OUTPUT -V				
5,6	DC OK RELAY CONTACT				





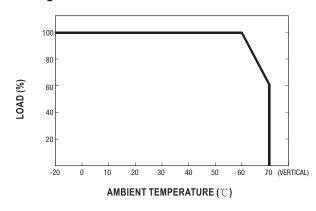
Block Diagram



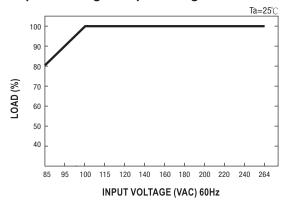
DC OK Relay Contact

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.

Mouser Electronics

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PS-S4005 PS-S4012 PS-S4024 PS-S4048