

PS-S40 Series

Specifications

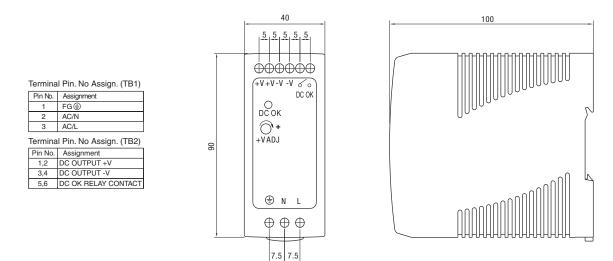


Features:

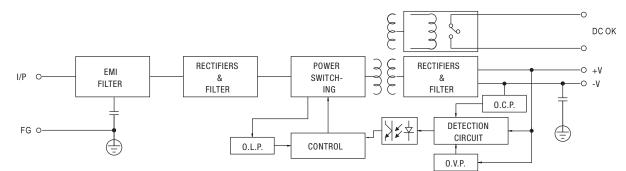
- Universal AC input/full range
- Protections: Short Circuit / Overload / Overvoltage •
- Cooling by free air convection
- DIN rail mountable ٠
- LED indicator for power on DC OK relay contact
 No load power consumption < 0.75W
- 100% full load burn-in test
- 3 year warranty

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	
	HIFFEL & NOISE (IIIAX)		1			
	VOLTAGE ADJ. RANGE	Ripple & hoise are measured at 2 $5 \sim 6V$	0MHz of bandwidth by using a 12 twis 12 ~ 15V	$ 24 \sim 30V$	$48 \sim 56V$	
		5~0V ±2.0%	$\pm 1.0\%$			
	VOLTAGE TOLERANCE			±1.0%	±1.0%	
			ance, line regulation and load regula		1 00/	
	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 full load				
INPUT	HOLD UP TIME (Typ.)	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. 50ms/230VAC; 20ms/115VAC at full load				
	VOLTAGE RANGE	85~264VAC 120~37	OVDC			
	FREQUENCY RANGE	47~63Hz				
	EFFICIENCY (Typ.)	78%	86%	88%	88%	
				0070	00 /0	
	AC CURRENT (max)	1.1A/115VAC; 0.7A/230				
DROTEOTION	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	
	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	ax.): 30V/ 1A resistive			
	WORKING TEMP.	$-20 \sim +70^{\circ}$ 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				
SALETT & LIND						
	SAFETY STANDARDS	UL508				
		EN60950-1 compliant				
	WITHSTAND VOLTAGE	I/P-0/P: 3KVAC I/P-FG: 1.5KVAC 0/P-FG: 0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: ≥100M 0hms/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				
OTHERS		that it still meets EMC directive		nto a ninai oquipinona rito intare		
	MTDE					
	MTBF	301.7K hrs min. MIL-	· · · ·			
	DIMENSION	40x90x100mm (WxHxD)				
	PACKING	0.3Kg; 42pcs / 13.6 Kg / 0.82CUFT				
		All parameters NOT specially m	entioned are measured at 230V AC	input, rated load and 25°C of an	bient temperature.	

Mechanical Specification



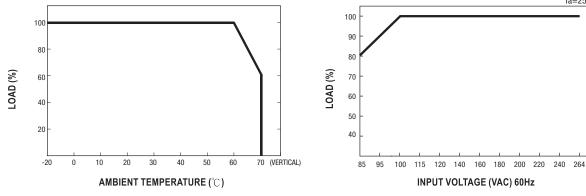
Block Diagram



DC OK Relay Contact

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

Ta=25℃