

# **PS-S40 Series**

**Specifications** 

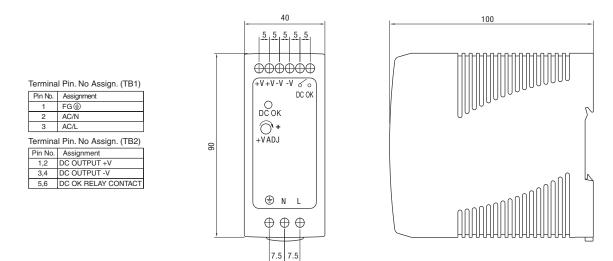


## Features:

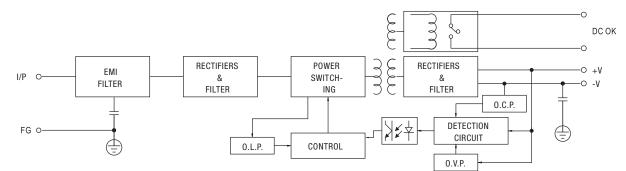
- Universal AC input/full range
- Protections: Short Circuit / Overload / Overvoltage •
- Cooling by free air convection
- DIN rail mountable ٠
- LED indicator for power on DC OK relay contact
  No load power consumption < 0.75W</li>
- 100% full load burn-in test
- 3 year warranty

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**



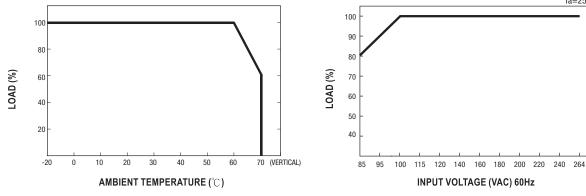
#### **Block Diagram**



### **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℃