

# PS-S40 Series **Specifications**













#### Features:

- Universal AC input/full rangeProtections: Short Circuit / Overload / Over voltage
- Cooling by free air convection
- DIN rail mountable
- NEC class 2 / LPS compliant (12V,24V,48V only)
- LED indicator for power on DC OK relay contact
- No load power consumption < 0.75W
- 100% full load burn-in test
- 3 years warranty

### **OUTPUT**

INPUT

PROTECTION

**ENVIRONMENT** 

**SAFETY & EMC** 

**OTHERS** 

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		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.	1
LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME		AC; 500ms, 30ms/115VAC		1
	·		ON/OFF the power supply may lead t	n increase of the set up time
HOLD UP TIME (Typ.)		s/115VAC at full load	one or the portor supply may load.	o morodoo or the oot up ame.
VOLTAGE RANGE	85~264VAC 120~	~370VDC		
FREQUENCY RANGE	47~63Hz	0.0.20		
EFFICIENCY (Typ.)	178%	86%	88%	88%
AC CURRENT (max)	1.1A/115VAC; 0.7A/		0070	0070
INRUSH CURRENT (Typ.)	COLD START: 30A/115VAC; 60A/230VAC			
LEAKAGE CURRENT	<1mA/ 240VAC	101/10, 00/1/2001/10		
OVERLOAD PROTECTION	105% ~ 150% rated	1 output nower		
OVERLOAD PROTECTION			ally after fault condition is removed	
OVER VOLTAGE PROTECTION	6.25~7.25V	15.6~18V	31.2~36V	57.6~64.8V
OVER VOEWAE I HOTEOTION		o/p voltage, re-power on to recov		07.0 01.01
OVER TEMPERATURE PROTECTION	,,		 rent limiting / output voltag	e goes to 0:
	re-power on to reco	ver	0 1 0	,
DC OK AKTIV SIGNAL (max.)	Relay contact rating	(max.): 30V/ 1A resistive		
WORKING TEMP.	-20 ~ +70°C (Refer	to output load derating cu	rve)	
WORKING HUMIDITY	20 ~ 90% RH non-c	ondensing		
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			
MOUNTING	Compliance to IEC60068-2-6			
SAFETY STANDARDS	UL508			
SALLIT STANDANDS	UL60950-1			
	EN60950-1approved	1		
		n Impliant (12V, 24V, 48V onl	lu\	
WITHSTAND VOLTAGE				
	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC I/P-O/P, I/P-FG, O/P-FG: ≥100M Ohms/500VDC (25°C: 70% RH)			
ISOLATION RESISTANCE	Compliance to EN55		, (25°C; 70% KH)	
EMI CONDUCTION & RADIATION		011		
	EN55022 (CISPR22)			
LIADAAONIC CUDDENT	EN61204-3 Class B	000 0 0 0		
HARMONIC CURRENT	Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024; ENV50204 ; EN61000-6-2; EN61204-3;			
EMS IMMUNITY			00024; ENV00204; EN6100	JU-0-2; EN012U4-3;
	light industry level;		alled into a final continuous Time Cont	
	that is still meets EMC dire	•	alled into a final equipment. The final	equipment must be re-confiri
MTBF		MIL-HDBK-217K (25°C)		
DIMENSION	40x90x100mm (Wxl	' '		
PACKING	0.3Kg; 42pcs / 13.6	,		
	0, 1	•	N AC input rated load and 25°C of a	

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.

## Altech Corp.®

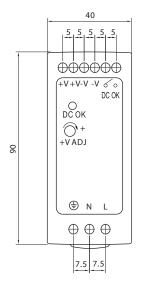
#### **Mechanical Specification**

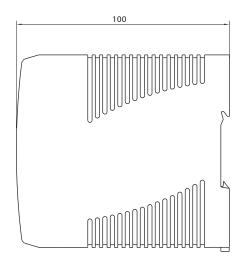
Terminal Pin. No Assign. (TB1)

Pin No.	Assignment	
1	FG⊕	
2	AC/N	
3	AC/L	

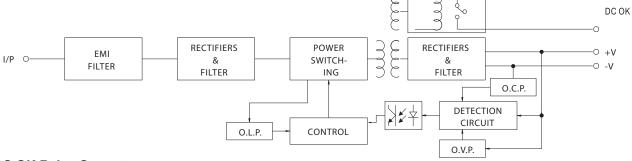
Terminal Pin. No Assign. (TB2)

Pin No.	Assignment	
1,2	DC OUTPUT +V	
3,4	DC OUTPUT -V	
5,6	DC OK RELAY CONTACT	





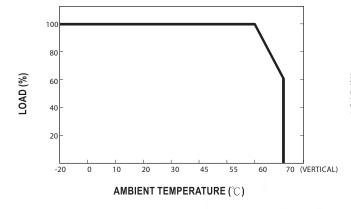
#### **Block Diagram**



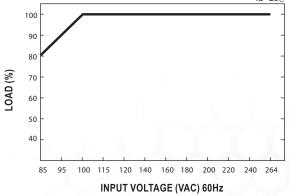
#### **DC OK Relay Contact**

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.