

PS-S60 Series **Specifications**













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

OUTPUT

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

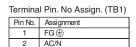
OTHERS

Cat. No.	PS-S6005	PS-S6012	PS-S6024	PS-S6048		
DC VOLTAGE	5V	12V	24V	48V		
RATED CURRENT	10A	5A	2.5A	1.25A		
CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A	0 ~ 1.25A		
RATED POWER	50W	60W	60W	60WRIPPLE &		
NOISE (max)	80mVp-p	120mVp-p	150mVp-p	200mVp-p		
	Ripple & noise are measure	ed at 20MHz of bandwidth by using a	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.			
LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%		
LOAD REGULATION	±1.5%	±1.0%	±1.0%	±1.0%		
SETUP, RISE TIME	500ms, 30ms/230V	/AC; 500ms, 30ms/115VAC	at full load	1		
,	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.					
HOLD UP TIME (Typ.)	50ms/230VAC / 20ms/115VAC at full load					
VOLTAGE RANGE	85 ~ 264VAC 12	20 ~ 370VDC				
FREQUENCY RANGE	47~63Hz					
EFFICIENCY (Typ.)	78%	86%	88%	87%		
AC CURRENT (max)	1.8A/115VAC; 1A/2		1			
INRUSH CURRENT (Typ.)	COLD START: 60A/2					
LEAKAGE CURRENT	≤1mA/ 240VAC					
OVERLOAD PROTECTION		nd output nower				
OVEREGABITIOTECTION		105% ~ 150% rated output power Protection type: Constant current limiting, recovers automatically after fault condition is removed				
OVER VOLTAGE PROTECTION	6.25 ~ 7.25V	15.6 ~ 18V	31.2 ~ 36V	57.6 ~ 64.8V		
OVER VOLIAGE FRO LEGITOR		n o/p voltage, re-power on to recov		37.0 1 04.00		
OVER TEMPERATURE PROTECTION	Power supply shut down at 70°C constant current limiting / output voltage goes to 0;					
OVER TERM ENVIONE PROTECTION	re-power on to recover					
DC OK AKTIV SIGNAL (max.)		g (max.): 30V/1A resistive				
WORKING TEMP.	-20 ~ +70°C (Refer	to output load derating cu	irve)			
WORKING HUMIDITY	20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH ±0.03% °C (0 ~ 50°C)					
STORAGE TEMP., HUMIDITY						
TEMP. COEFFICIENT						
VIBRATION	,	500Hz, 2G 10min. / 1cycle,	60 min. each long X.Y. 7 a	xes		
MOUNTING	Compliance to IEC6		00 000 101.g /1, 1, 2 0			
SAFETY STANDARDS	UL508					
SAFETT STANDARDS	UL60950-1					
		.d				
	EN60950-1approved NEC class2 / LPS compliant (24V, 48V only)					
WITHSTAND VOLTAGE			U EKVAC			
		I/P-O/P: 3KVAC				
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)					
LIADAAONIO OUDDENT	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.					
	The power supply is cons that is still meets EMC dir		alled into a final equipment. The fin	aı equipment must be re-confirme		
MTBF		MIL-HDBK-217K (25°C)				
DIMENSION		40x90x100mm (WxHxD) 0.33Kg; 42pcs / 14.8Kg / 0.82CUFT				
PACKING						
17 GIGING	0.00ng, 72p00 / 14	.o.g / 0.020011				

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

Altech Corp.

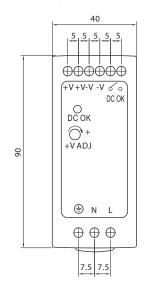
Mechanical Specification

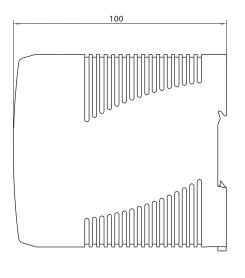


Terminal Pin. No Assign. (TB2)

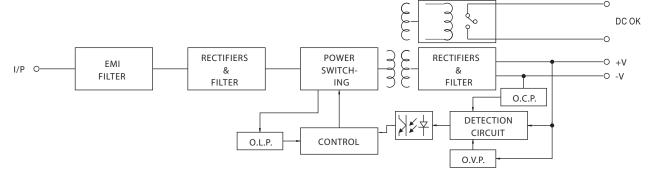
AC/L

Terminar I III. No Assign. (TDZ)				
	Pin No.	Assignment		
	1,2	DC OUTPUT +V		
	3,4	DC OUTPUT -V		
	5,6	DC OK RELAY CONTACT		





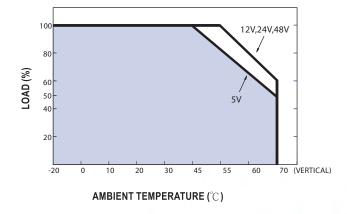
Block Diagram



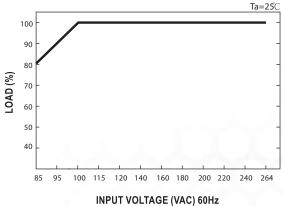
DC OK Relay Contact

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.