

PS-S60 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
- No load power consumption < 0.75W
- 100% full load burn-in test
- 3 year warranty

OUTPUT

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PROTECTION

ENVIRONMENT

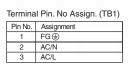
SAFETY & EMC

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	60W	
RIPPLE & 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		
	Length of set up time is n	neasured at cold first start. Turning	ON/OFF the power supply may lead	I to increase of the set up time.	
HOLD UP TIME (Typ.)	50ms/230VAC / 20r	ms/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		3370	0.70	
INRUSH CURRENT (Typ.)	,	15VAC; 60A/230VAC			
LEAKAGE CURRENT	≤1mA/ 240VAC	100110, 0010200110			
		d audaud nausau			
OVERLOAD PROTECTION	105% ~ 150% rate				
OVEDVOLTACE PROTECTION		current limiting, recovers automatic 15.6 ~ 18V	· .		
OVERVOLTAGE PROTECTION	6.25 ~ 7.25V		31.2 ~ 36V	57.6 ~ 64.8V	
OVER TEMPERATURE PROTECTION		n overvoltage, re-power on to recov down at 70°C constant curi		no acco to O.	
OVER TEIVIPERATURE PROTECTION	" ,		rent inniting / output voitag	ge goes to o;	
DC OK AKTIV SIGNAL (max.)	re-power on to reco Relay contact rating	g (max.): 30V/1A resistive			
WORKING TEMP.	-20 ~ +70°C (Refer	to output load derating cu	rve)		
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 ~ 5	600Hz, 2G 10min. / 1cycle,	60 min. each long X,Y, Z a	xes	
MOUNTING	Compliance to IEC6	0068-2-6	•		
SAFETY STANDARDS	UL508				
	EN60950-1 complia	ant			
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 0hms/500VDC (25°C; 70% RH)				
	Compliance to EN55011				
EMI CONDUCTION & RADIATION					
EMI CONDUCTION & RADIATION	EN55022 (CISPR22)	,			
	EN61204-3 Class B	}			
HARMONIC CURRENT	EN61204-3 Class B Compliance to EN6	3 1000-3-2,-3	55024. ENN/50204. ENG10	00 6 2 ENG1204 2	
	EN61204-3 Class B Compliance to EN6 Compliance to EN6	3 1000-3-2,-3 1000-4-2,3,4,5,6,8,11; EN	55024; ENV50204; EN610	00-6-2; EN61204-3;	
HARMONIC CURRENT	EN61204-3 Class B Compliance to EN6 Compliance to EN6 light industry level;	3 1000-3-2,-3 1000-4-2,3,4,5,6,8,11; EN: criteria A			
HARMONIC CURRENT	EN61204-3 Class B Compliance to EN6 Compliance to EN6 light industry level;	3 1000-3-2,-3 1000-4-2,3,4,5,6,8,11; EN: criteria A idered a component which will insta			
HARMONIC CURRENT EMS IMMUNITY	EN61204-3 Class B Compliance to EN6 Compliance to EN6 light industry level; The power supply is consi that it still meets EMC dire	1000-3-2,-3 1000-4-2,3,4,5,6,8,11; EN: criteria A idered a component which will insta ectives.			
HARMONIC CURRENT EMS IMMUNITY MTBF	EN61204-3 Class B Compliance to EN6 Compliance to EN6 light industry level; The power supply is consi that it still meets EMC dire 299.2K hrs min.	1000-3-2,-3 1000-4-2,3,4,5,6,8,11; EN: criteria A idered a component which will insta ectives. MIL-HDBK-217K (25°C)			
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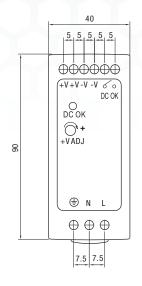


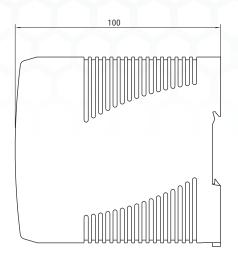
Mechanical Specification



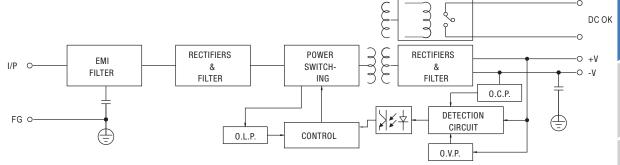
Terminal Pin. No Assign. (TB2)

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





Block Diagram



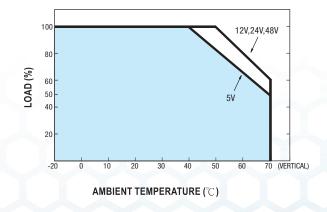
DC OK Relay Contact

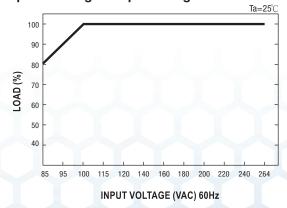
Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop more than 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load

Derating Curve

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

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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Altech:

PS-S6005 PS-S6012 PS-S6024 PS-S6048