

PS-S20 Series Specifications









Features:

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

OUTPUT

N	P	U	T	
-	-	-	ш	

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

Cat. No.	PS-S2005	PS-S2012	PS-S2015	PS-S2024		
DC VOLTAGE	5V	12V	15V	24V		
RATED CURRENT	3A	1.67A	1.34A	1A		
CURRENT RANGE	0~3A	0~1.67A	0~1.34A	0~1A		
RATED POWER	15W	20W	20W	24W		
RIPPLE & NOISE (max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p		
== @	1 1 1		12" twisted pair-wire terminated with a			
VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V		
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%		
VOLIAGE TOLLMANGE				±1.0 /0		
LINE DECLINATION	and the second s	tolerance, line regulation and load	• .	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/230V	'AC; 1000ms, 30ms/115VA	.C at full load			
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 50ms/230VAC; 20ms/115VAC at full load					
VOLTAGE RANGE	85~264VAC 120	~370VDC				
FREQUENCY RANGE	47~63Hz					
EFFICIENCY (Typ.)	76%	80%	81%	84%		
AC CURRENT (max.)	0.55A/115VAC; 0.3		1 5 1 15	1		
INRUSH CURRENT (Typ.)		15VAC; 40A/230VAC				
LEAKAGE CURRENT	≤1mA/ 240VAC	13740, 404/230740				
OVERLOAD PROTECTION	105% ~ 160% rate					
OVERVOLTAGE PROTECTION			ally after fault condition is removed	07.0.00.41/		
OVERVOLTAGE PROTECTION	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V		
	,,	n overvoltage, re-power on to recov				
OVER TEMPERATURE PROTECTION	Power supply shut down at 70°C constant current limiting / output voltage goes to 0;					
	re-power on to reco	over				
DC OK AKTIV SIGNAL (max.)	3.75~6V (50mA)	9~13.5V (40mA)	11.5~16.5V (40mA)	18~27V (20mA)		
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 ~	•				
TEMP. COEFFICIENT	±0.03% °C (0 ~ 50°					
	`	,	60 min anah lang V V 7 aya			
VIBRATION	•		60 min. each long X,Y, Z axe	35		
MOUNTING	Compliance to IEC6	0068-2-6				
SAFETY STANDARDS	UL508					
	EN60950-1 complia	ant				
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC					
ISOLATION RESISTANCE		FG: 100M 0hms/500VDC				
EMI CONDUCTION & RADIATION	Compliance to EN5					
CONDOCTION OF THE MITTON	EN55022 (CISPR22)					
	ENG1204-3 Class B					
HARMONIC CURRENT						
HARMONIC CURRENT	Compliance to EN6		EEOOA, FNVEOOOA, FNO4000) C 1.FNC1004 0:		
EMS IMMUNITY	•		55024; ENV50204; EN61000	J-0-1;ENb1204-3;		
	light industry level;					
	The power supply is consi	dered a component which will insta	alled into a final equipment. The final	equipment must be re-confir		
	that it still meets EMC dire	ectives.				
MTBF	236.9K hrs min. I	MIL-HDBK-217K (25°C)				
DIMENSION	22.5x90x100mm (V	, ,				
PACKING	0.19Kg; 72pcs / 14					
		•	OV AC input, rated load and 25°C of an	nhient temperature		
	an paramotors isor specie	,ondonoù aro modouroù di 200	or mpat, ratou load and 20 0 01 all			



O DC OK

RL

≥120Ω

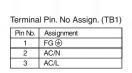
≥700Ω

≧700Ω

≥1.2KΩ

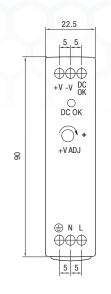
O +V

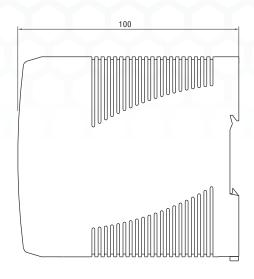
Mechanical Specification



Terminal Pin. No Assign. (TB2)

Pin No.	Assignment	
4	DC OUTPUT +V	
5	DC OUTPUT -V	
6	DC OK SIGNAL	

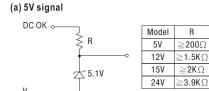


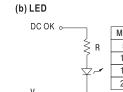


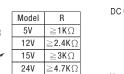
DC OK RECTIFIERS POWER RECTIFIERS EMI I/P O SWITCH-FILTER FILTER **FILTER** ING

0.L.P.

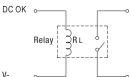
Application of DC OK Signal







CONTROL



DETECTION

CIRCUIT

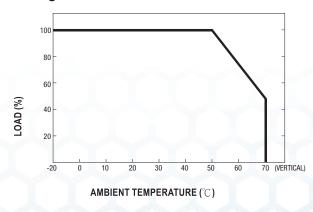
0.V.P.

	Mode
r - 5	5V
Relay	12V
[] [15V
	24V

Derating Curve

Block Diagram

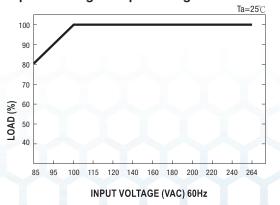
FG O



R

Output Derating VS Input Voltage

(c) Relay



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech:

PS-S2005 PS-S2015 PS-S2024 PS-S2012