

# PS-S20 Series **Specifications**











### Features:

- Universal AC input / full range
- Protections: Short Circuit / Overload / Over voltage
- Cooling by free air convection
- DIN rail mountable
- NEC class 2 / LPS compliant
- Built in DC OK active signal
- LED indicator for power on
- No load power consumption < 0.75W
- 100% full load burn-in test

OUTPUT

INPUT

PROTECTION

ENVIRONMENT

**SAFETY & EMC** 

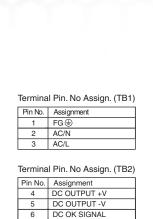
**OTHERS** 

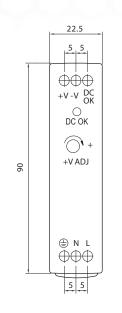
		• 3 years	s warranty	
Cat. No.	PS-S2005	PS-S2012	PS-S2015	PS-S2024
DC VOLTAGE	5V	12V	15V	24V
RATED CURRENT	3A	1.67A	1.34A	1A
CURRENT RANGE	0~3A	0~1.67A	0~1.34A	0~1A
RATED POWER	15W	20W	20W	24W
RIPPLE & NOISE (max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p
		11 1 11 11 11	12" twisted pair-wire terminated with 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%
		tolerance, line regulation and load		
LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME		AC; 1000ms, 30ms/115VA		1 = 1.070
OLIOI, MOL MINE			ON/OFF the power supply may lead to	increase of the set up time
HOLD UP TIME (Typ.)		s/115VAC at full load	OW/OFF the power supply may lead to	increase of the set up time.
VOLTAGE RANGE	85~264VAC 120	~370VDC		
FREQUENCY RANGE	47~63Hz			
EFFICIENCY (Typ.)	76%	80%	81%	84%
AC CURRENT (max.)	0.55A/115VAC; 0.35	The second secon	10170	7 0 1 7 0
INRUSH CURRENT (Typ.)		15VAC; 40A/230VAC		
LEAKAGE CURRENT	≤1mA/ 240VAC	100/10, 40/0/2000/10		
		ddd		
OVERLOAD PROTECTION	105% ~ 160% rate			
			ally after fault condition is removed	
OVER VOLTAGE PROTECTION	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V
OVER TEMPERATURE PROTECTION	Power supply shut of		<sup>er</sup> rent limiting / output voltage	goes to 0;
DC OK AKTIV SIGNAL (max.)	re-power on to reco 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-o	condensing		
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~	95% RH		
TEMP. COEFFICIENT	±0.03% °C (0 ~ 50°			
VIBRATION			60 min. each long X,Y, Z axe	S
MOUNTING	Compliance to IEC6		00 000 10.1g /1,1, = 0.10	
	UL508			
SAFETY STANDARDS				
	EN60950-1approve			
MITHOTAND VOLTAGE	NEC class2 / LPS co	•	0.510.40	
WITHSTAND VOLTAGE			0.5KVAC	
ISOLATION RESISTANCE		FG: 100M Ohms/500VDC		
EMI CONDUCTION & RADIATION	Compliance to EN55011			
	EN55022 (CISPR22)			
	EN61204-3 Class B			
HARMONIC CURRENT	Compliance to EN61	·		
EMS IMMUNITY	Compliance to EN61	000-4-2,3,4,5,6,8,11; EN	55024; ENV50204; EN61000	)-6-1;EN61204-3;
	light industry level;	criteria A		
	The power supply is consi	dered a component which will insta	alled into a final equipment. The final e	equipment must be re-confir
	that is still meets EMC dire	ectives.		
MTBF	236.9K hrs min. M	/IIL-HDBK-217K (25°C)		
DIMENSION	22.5x90x100mm (W	' '		
PACKING	0.19Kg; 72pcs / 14.	*		
17 Orango	0.10Ng, 12p03 / 14.	7 ng / 0.010011		

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

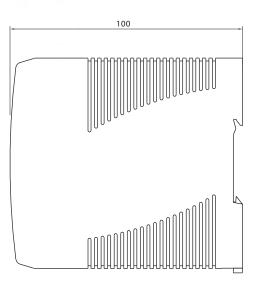
## Altech Corp.

## **Mechanical Specification**



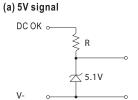


(b) LED

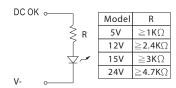


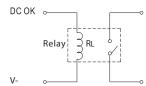
#### **Block Diagram** DC OK O DC OK RECTIFIERS **RECTIFIERS POWER** ·O +V EMI I/P O SWITCH-& **FILTER** ·O -V FILTER **FILTER** ING DETECTION CIRCUIT CONTROL O.L.P. O.V.P.

## **Application of DC OK Signal**



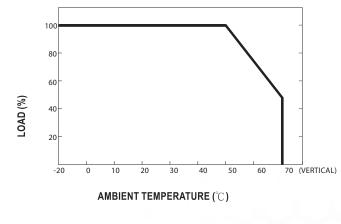
R
$\geq$ 200 $\Omega$
$\geq$ 1.5K $\Omega$
$\geq$ 2K $\Omega$
$\ge$ 3.9K $\Omega$





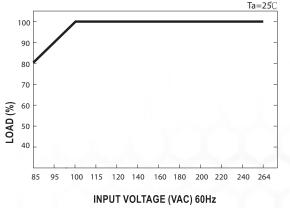
_		
0	Model	RL
	5V	≧120Ω
	12V	≥700Ω
	15V	≥700Ω
	24V	≥1.2K $Ω$

## **Derating Curve**



## Output Derating VS Input Voltage

(c) Relay



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