

# PS-S20 Series



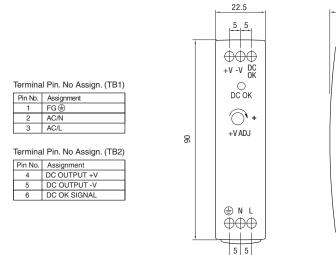


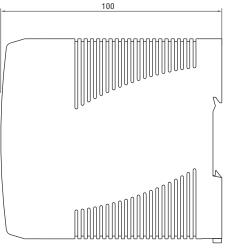
## Features:

- 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

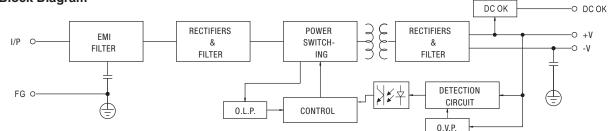
OUTPUT	Cat. No.	PS-S2005	PS-S2012	PS-S2015	PS-S2024
	DC VOLTAGE	5V	12V	15V	24V
	RATED CURRENT	3A	1.67A	1.34A	1A
	CURRENT RANGE	0~3A	0~1.67A	0~1.34A	0~1A
	RATED POWER	15W	20W	20W	24W
	RIPPLE & NOISE (max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p
		Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor			
	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: includes set up tolerance, line regulation and load regulation.			
	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/230VAC; 1000ms, 30ms/115VAC at full load			
		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.			
INPUT	HOLD UP TIME (Typ.)	50ms/230VAC; 20ms/115VAC at full load			
	VOLTAGE RANGE	85~264VAC 120~3	70VDC		
	FREQUENCY RANGE	47~63Hz			
	EFFICIENCY (Typ.)	76%	80%	81%	84%
			and the second se	0170	04 /0
	AC CURRENT (max.)	0.55A/115VAC; 0.35A/			
	INRUSH CURRENT (Typ.)	COLD START: 20A/115VAC; 40A/230VAC			
PROTECTION	LEAKAGE CURRENT	≤1mA/ 240VAC			
	OVERLOAD PROTECTION	105% ~ 160% rated output power			
		Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	OVERVOLTAGE PROTECTION	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V
	OVER TEMPERATURE PROTECTION	Protection type: Shut down overvoltage, re-power on to recover Power supply shut down at 70°C constant current limiting / output voltage goes to 0;			
	OVER TENI ENATORE PHOTEORION	re-power on to recover			
ENVIRONMENT	DC OK AKTIV SIGNAL (max.)	3.75~6V (50mA)	9~13.5V (40mA)	11.5~16.5V (40mA	) 18~27V (20mA)
	WORKING TEMP.	$-20 \sim +70^{\circ}$ C (Refer to output load derating curve)			
	WORKING HUMIDITY	$20 \sim 90\%$ RH non-condensing			
	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			
SAFETY & EMC	MOUNTING	Compliance to IEC600	68-2-6		
	SAFETY STANDARDS	UL508			
		EN60950-1 compliant			
	WITHSTAND VOLTAGE	I/P-0/P: 3KVAC I/P-FG: 1.5KVAC 0/P-FG: 0.5KVAC			
	ISOLATION RESISTANCE	I/P-0/P, I/P-FG, 0/P-FG: 100M 0hms/500VDC			
	EMI CONDUCTION & RADIATION	Compliance to EN55011			
		EN55022 (CISPR22)			
		, ,			
		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; EN61000-6-1;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			
OTHERS		that it still meets EMC directives.			
and the second se	MTBF	236 9K hrs min MI	-HDBK-217K (25°C)		
	DIMENSION	236.9K hrs min. MIL-HDBK-217K (25°C)			
		22.5x90x100mm (WxHxD)			
		0.19Kg; 72pcs / 14.7Kg / 0.91CUFT All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature			
	PACKING	•	•		

#### **Mechanical Specification**

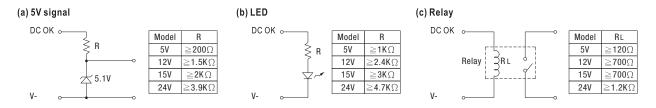




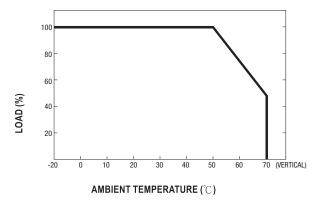
#### **Block Diagram**



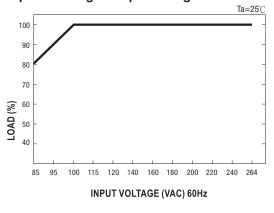
### Application of DC OK Signal



## **Derating Curve**



#### **Output Derating VS Input Voltage**



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