

### 20W Single Output Industrial DIN Rail Power Supply



#### ■ Features :

- NEC Class 2 /LPS Compliant (except SV)
- Universal AC input/Full range
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Built in DC OK active signal
- LED indicator for power on
- 100% full load burn-in test
- No load power consumption<0.75W
- 3 years warranty



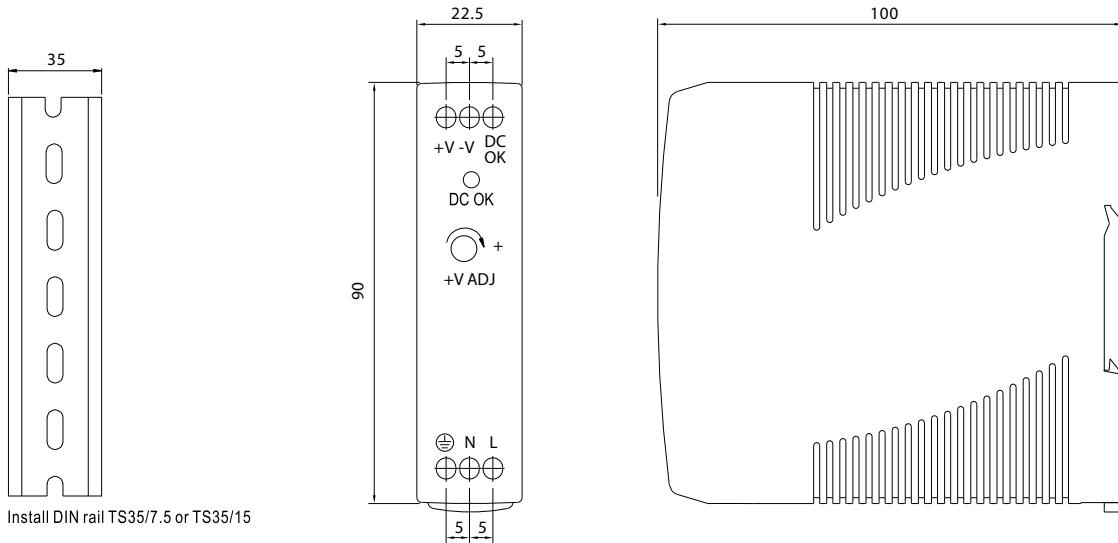
#### SPECIFICATION

MODEL	PS-S2005	PS-S2012	PS-S2015	PS-S2024
OUTPUT	DC VOLTAGE	5V	12V	15V
	RATED CURRENT	3A	1.67A	1.34A
	CURRENT RANGE	0 ~ 3A	0 ~ 1.67A	0 ~ 1.34A
	RATED POWER	15W	20W	20W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME Note.5	500ms, 30ms/230VAC	1000ms, 30ms/115VAC at full load	
INPUT	HOLD TIME (Typ.)	50ms/230VAC	20ms/115VAC at full load	
	VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	76%	80%	81%
	AC CURRENT (Typ.)	0.55A/115VAC	0.35A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC	40A/230VAC	
PROTECTION	LEAKAGE CURRENT	<1mA / 240VAC		
	OVER LOAD	105 ~ 160% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V
		Protection type : Shut down o/p voltage, re-power on to recover		27.6 ~ 32.4V
FUNCTION	DC OK ACTIVE SIGNAL (max.)	3.75 ~ 6V / 50mA	9 ~ 13.5V / 40mA	11.5 ~ 16.5V / 40mA
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)		
	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 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6		
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, NEC class 2 /LPS		
	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 Ohms/500VDC		
	EMI CONDUCTION & RADIATION	Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B		
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3		
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-1, EN61204-3 Light industry level, criteria A		
	MTBF	236.9 hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	22.5*90*100mm (W*H*D)		
NOTE	PACKAGING	0.19Kg; 0.48lbs.		
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. 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.			

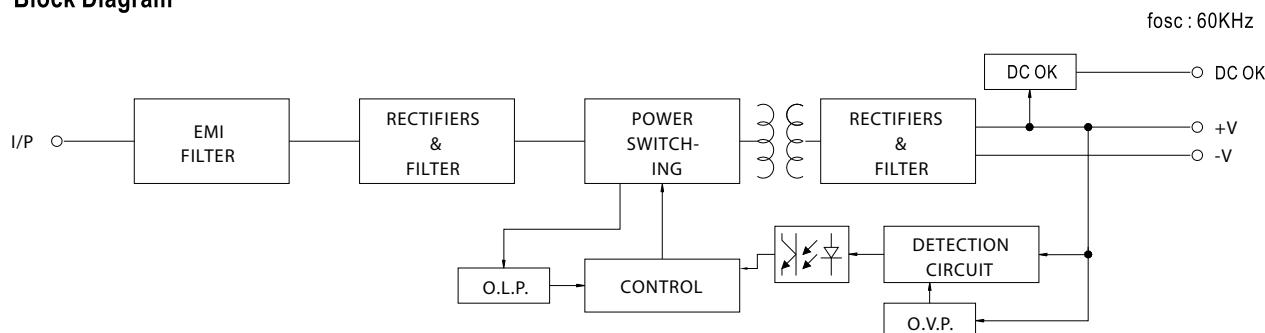
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### Mechanical Specification

Case No. 956 Unit:mm

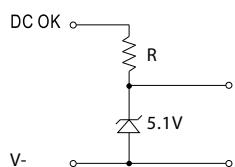


### Block Diagram

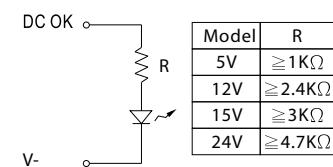


### Application of DC OK Active Signal

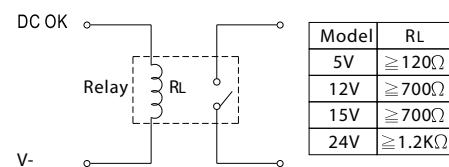
#### (a) 5V signal



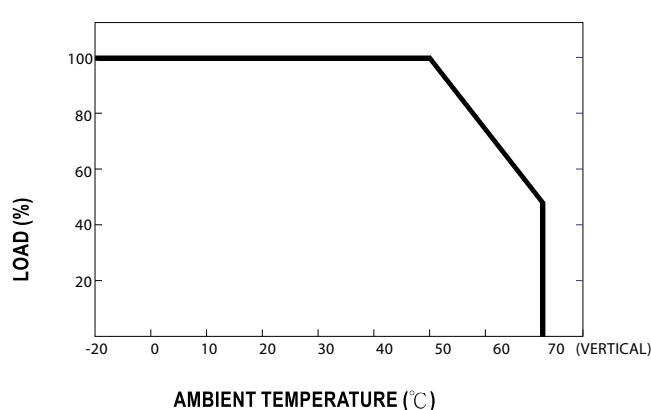
#### (b) LED



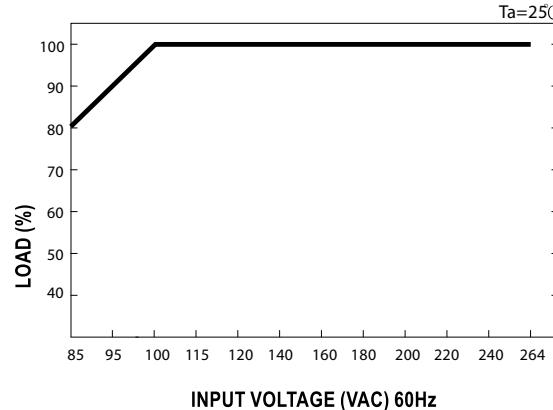
#### (c) Relay



### Derating Curve



### Output Derating VS Input Voltage



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