Features
Universal AC input/Full range
Protections: Short circuit / Overload / Over voltage
Cooling by free air convection
Can be installed on DIN Rail TS-35/7.5 or 15
Isolation class II
LED indicator for power on
No load power consumption, 0.5W
100% full load burn-in test



Specifications Specification Specificatio				
Output				
	PS155	PS1512	PS1515	PS1524
DC Voltage	5V	12V	15V	24V
Rated Current	2.4A	1.25A	1A	0.63A
Current Range	0 ~ 2.4A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.63A
Rated Power	12W	15W	15W	15.2W
Ripple & Noise (max.) 2	80mVp-p	120mVp-p	120mVp-p	150mVp-p
Voltage Adj. Range	4.75 ~ 5.5V	10.8 ~ 13.2V		21.6 ~ 26.4V
Voltage Tolerance <sup>3</sup>	<u>+</u> 2.0%	<u>+</u> 1.0%	<u>+</u> 1.0%	<u>+</u> 1.0%
Line Regulation	<u>+</u> 1.0%	<u>+</u> 1.0%	<u>+</u> 1.0%	<u>+</u> 1.0%
Load Regulation	<u>+</u> 1.0%	<u>+</u> 1.0%	<u>+</u> 1.0%	<u>+</u> 1.0%
Setup, Rise Time ⁵	1000ms, 50ms/230VAC 1000ms, 50ms/115VAC at full load			
Hold Up Time (Typ.)	70ms/230VAC 16ms/115VAC at full load			

Input				
	PS155	PS1512	PS1515	PS1524
Voltage Range		85 ~ 264VAC	120 ~ 370VDC	
Frequency Range	47 ~ 63Hz			
Efficiency (Typ.)	77%	84%	83.5%	85.00%
AC Current (Typ.)		0.88A/115VAC	0.48A/230VAC	
Inrush Current (Typ.)		Cold Start 35A/115	VAC 65A/230VAC	

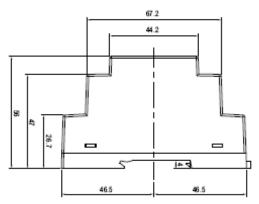
	PS155	PS1512	PS1515	PS1524
Overload				
(Note 5)				atically after fault
Over Voltage	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.75V	27.6 ~ 32.4V
	Protection type: shut off o/p voltage, clamping the zener diode			

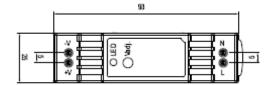
Environment		Safety & EMC (Note 4)		
Working Temp.	-20 ~ +60°C (Refer to output load derating curve)	Safety Standards	approved, design refer to	
Working Humidity	20 ~ 90% RH (non-		EN50178	
	condensing)	Withstand Voltage	I/P-O/P:3KVAC	
Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH	
Temp. Coefficient	<u>+</u> 0.03%/°C (0 ~ 50°C)	EMI Conduction &	Compliance to EN55011,	
Vibration	10 ~ 500Hz, 2G 1; Mounting: Compliance to IEC60068-2-6	Radiation	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,	
MTBF	1172.3 K hrs min. MIL-HDBK- 217F (25°C)		EN55024, EN61000-6-2, EN61204-3, heavy industry level	
Dimensions	25 x 93 x 56mm (WxHxD)		criteria A	
Weight	0.1Kg			

### NOTES:

- 1. All parameters NOT specifically mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of band width 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. Constant current operation region is within  $60\% \sim 100\%$  rated output voltage. Protection type for short curcut is hiccup mode and will never recover automatically after fault condtion is removed.

## **Mechanical Specification** Unit: mm

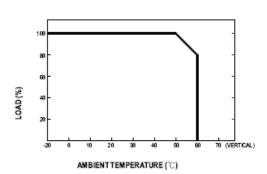




# Derating Curve

## **Output Derating vs Input Voltage**

AMBIENT TEMPERATURE (°C)



# **Block Diagram**

