S.M.P.S — DIN Rail Power Supply

240R2 Series
240W SINGLE OUTPUT

▷ **Constant voltage design**
▷ **Protections : Overload /Short circuit**
▷ **Cooling by air convection**
▷ **Din-rail installations**
▷ **LED indicator for power on**
▷ **100% full load burn-in test**
▷ **Suitable for industrial control system,F.A, semiconductor fabrication equipment and electro-mechanical apparatus pplications**
▷ **Safety standards : EN60950-1**
▷ **EMC standards : EN55022,EN61204-3, EN61000-3,2,3,EN61000-3-3**
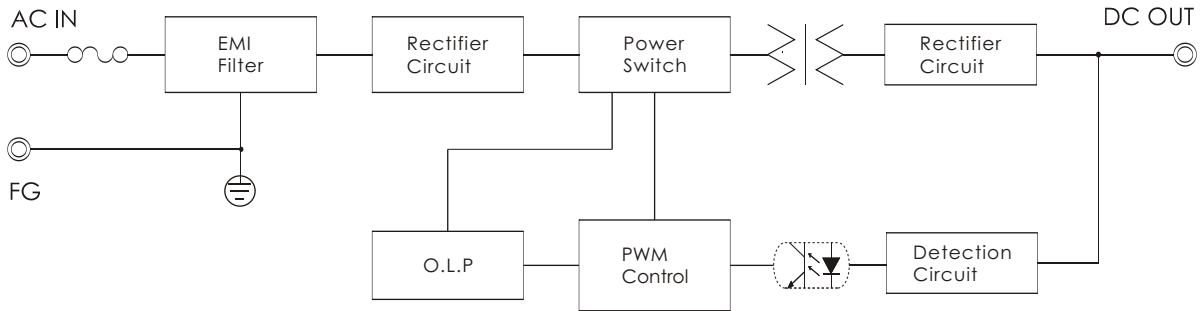▷ **3years warranty**

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	ITEM	UP240S24R2
INPUT	VOLTAGE RANGE	AC180~264V
	FREQUENCY RANGE	47~63Hz
	EFFICIENCY(typ.)	89%
	AC CURRENT(typ.)	2.5A/230VAC
	INRUSH CURRENT(typ.)	COLD START 50A/230VAC
	LEAKAGE CURRENT	<2.5mA / 230VAC
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	10A
	RATED POWER	240W
	RIPPLE&NOISE(max.) Note2	290mVp-p
	VOLTAGE ADJ. RANGE	±5%
	VOLTAGE TOLERANCE Note3	±3%
	LINE REGULATION Note4	±1%
	LOAD REGULATION Note5	±2%
	SETUP,RISE TIME(max.)	3000ms,100ms/230VAC at full load
	HOLD UP TIME(typ.)	60ms/230VAC at full load
PROTEC-TION	SHORT CIRCUIT	Hiccup mode ; recovers automatically after fault condition is removed
	OVERLOAD	Over 110% of rating ; recovers automatically after fault condition is removed
ISOLA-TION	WITHSTAND VOLTAGE	I/P-O/P:AC3KV, I/P-F.G:AC1.5KV, O/P-F.G:AC0.5KV
	ISOLATION RESISTANCE	I/P-O/P, I/P-F.G, O/P-F.G:DC500V 100Mohms(At room temp. & humid.)
ENVIRON-MENT	WORKING TEMP.&HUMID.	-20~+50℃(Refer to "DERATING CURVE"),20~95%RH
	STORAGE TEMP.&HUMID.	-30~+75℃,10~95%RH
	VIBRATION	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
OTHERS	DIMENSION/WEIGHT	60*130*123mm(W*H*D)/0.71Kg

NOTE

1. All parameters not specially mentioned are measured at 220Vac input, rated load and 25℃ of ambient temperature.

2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pare-wire terminated with 0.1 uF & 47uF parallel capacitor.

3. Tolerance : includes set up tolrance, line regulation and load regulation.

4. Line regulation is measured from low line to high line at rated load.

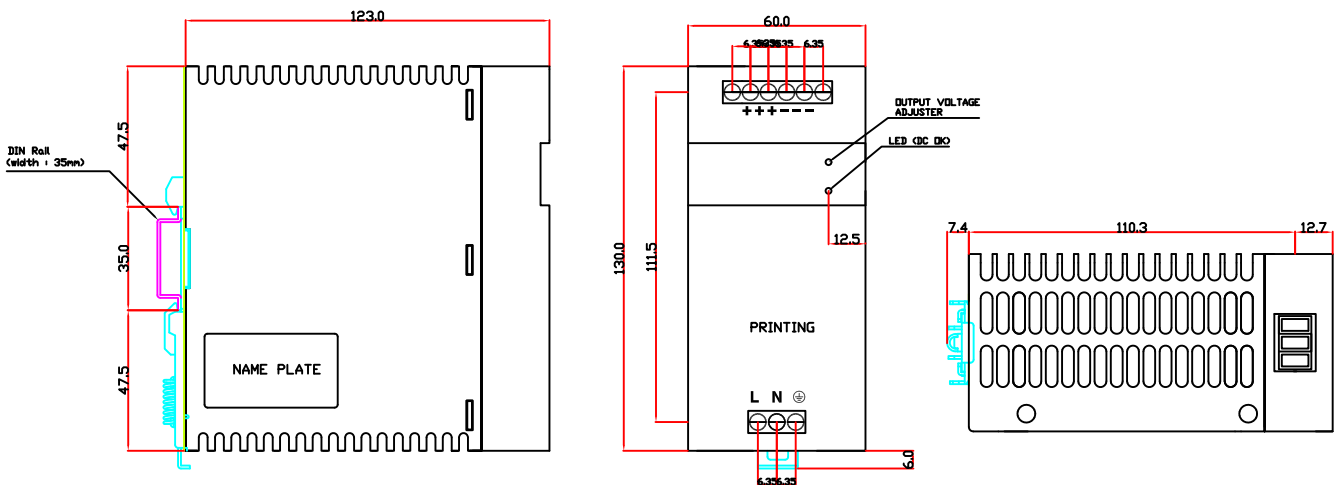5. Load regulation is measured from low 0% to 100% rated load.
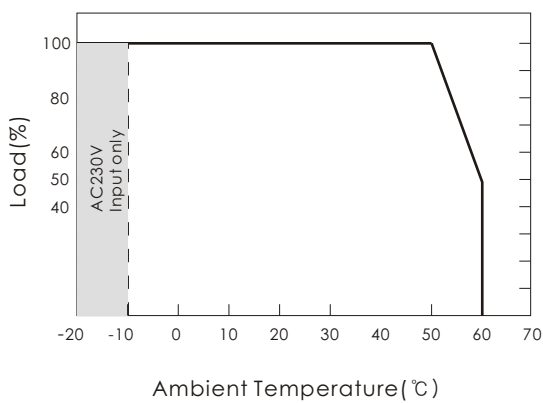
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■ BLOCK DIAGRAM

AC IN

| EMI Filter | Rectifier Circuit | Power Switch | | Rectifier Circuit |

DC OUT

FG

| O.L.P | PWM Control | | Detection Circuit |

■ DIMENSIONS(unit:mm)

123.0

47.5

DIN Rail (width : 35mm)

35.0

47.5

NAME PLATE

60.0

6.35 6.35 6.35 6.35

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OUTPUT VOLTAGE ADJUSTER

LED (DC OK)

12.5

130.0

111.5

PRINTING

L N ⊕

6.35 6.35

6.0

7.4   110.3   12.7

■ DERATING CURVE

Load(%)

AC230V Input only

Ambient Temperature(℃)

■ STATIC CHARACTERISTICS

Load(%)

Input Voltage(Vac), 60Hz