

DR-100 Series

100W Single Output Industrial DIN Rail Power Supply



Case No: 8013DE
100 x 93 x 56 mm

Features

- Universal AC input/ Full range
- Protections: Short Circuit/Overload/ Over Voltage/Over Temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Isolation Class 2
- LED indicator for power on
- No load power consumption <1W
- 100% full load burn-in test



Specification

INPUT	Voltage	88V ~ 264VAC universal full range or 124V ~ 370VDC.		
	Frequency	47 ----- 63 Hz		
	Current	<3A@115VAC; 1.6A@230VAC input, full load		
	Inrush Current	<30A@115V , <45A@230VAC input, Cold start at 25°C ambient		
OUTPUT	MODEL No.	DR-100-12	DR-100-15	DR-100-24
	Voltage	12V	15V	24V
	Min Load	0A	0A	0A
	Max Load	7.5A	6.5A	4.2A
	Output Tolerance	± 2%	± 1%	± 1%
	Line Regulation	± 1%	± 1%	± 1%
	Load Regulation	± 1%	± 1%	± 1%
	Ripple Noise MAX.	120mV	120mV	150mV
	Efficiency (TYP.)	87%	87%	89%
	Power	90W	97.5W	100.8W
PROTECTION	Over Voltage	16~20V	19~23V	30~35V
		Shutdown o/p voltage, re-power on to recover		
	Over Temperature	90°C ±15°C (RTH2) detect on heat sink of power transistor		
		Shut down o/p voltage, re-power on to recover		
	Over Load	105~135% rated output power; Constant current limiting, recovers automatically after fault condition is removed		
ELEC. CHAR.	Rise Time	<80mS@ 115~230VAC at full load		
	Hold up Time	>50mS@ 230VAC; 18mS@115VAC at full load		
	Setup Time	<2.7 Sec @ 115~230VAC		
ENVIRONMENT	Temperature	Operating: -20 ~ +60°C ; Storage: -40~ +85°C		
	Humidity	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)		
SAFETY	Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute		
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC		
	Safety Standard	UL60950-1; TUV EN60950-1 Approved design refers to EN50178		
EMC	EMI	EN55022, EN61204-3 Class B, EN61000-3-2,3		
	EMS	EN61000-4-2,3,4,5,6,8,11; EN55024; EN61000-6-2; EN61204-3		
OTHERS	Cooling	Natural cooling		
	M.T.B.F.	486K hrs min. MIL-HDBK-217F (25°C)		
	Packing	0.35Kg; 36pcs/13.6Kg/0.89 CUFT		

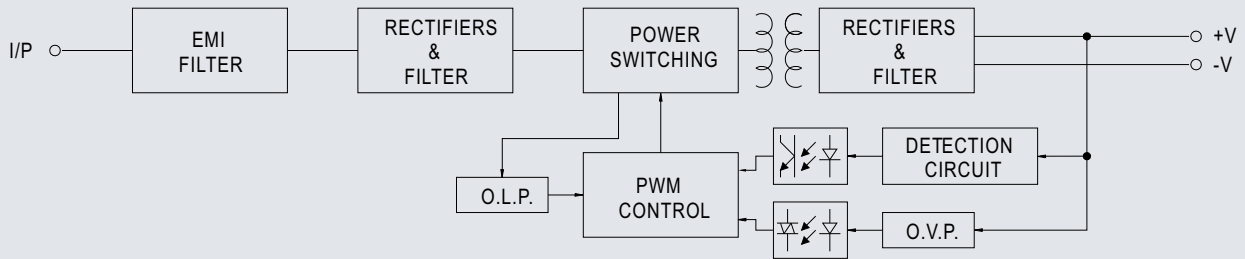
- 1 All parameters not specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature
- 2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminates with a 0.1uf & 47uf parallel capacitor
- 3 Tolerance: Includes set up tolerance, line regulation and load regulation
- 4 The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.
- 5 Harmonic current test @ 90% load
- 6 Under short circuit or overload >150% conditions, output voltage may shut down for 5 secs and then go into constant current protection

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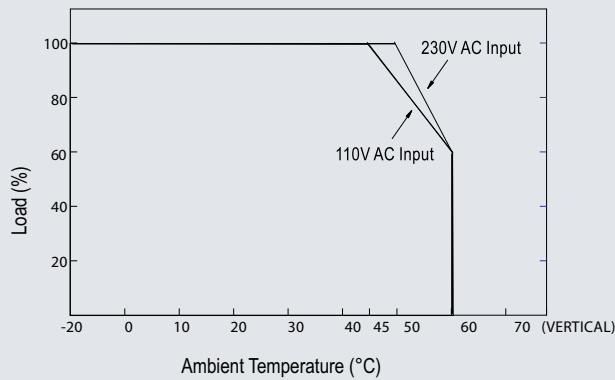
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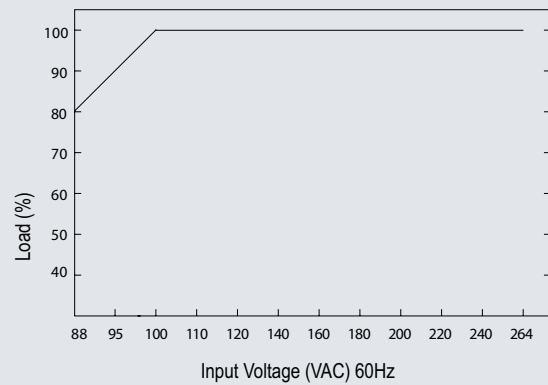
Block Diagram



De-Rating Curve



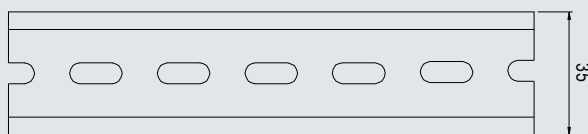
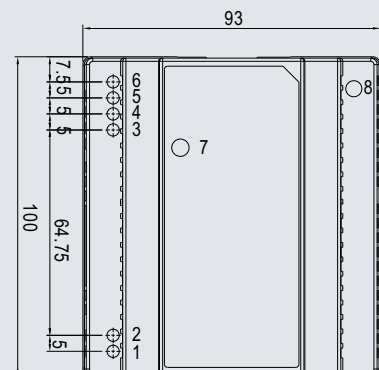
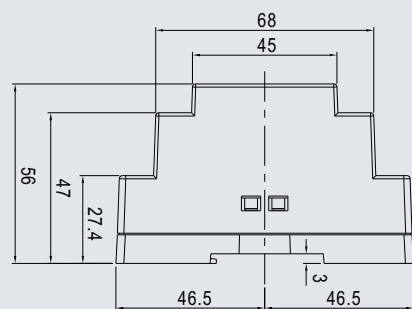
Output Derating Vs Input Voltage



Dimensions

Terminal Pin. No Assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3,4	+V
5,6	-V
7	LED
8	+V ADJ



Admissible Din-Rail: TS35/7.5 or TS35/15