

DR-100 Series

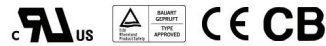
100W Single Output Industrial DIN Rail Power Supply



Case No: 8013DE
100 x 93 x 56mm

Features

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



Specification

INPUT	Voltage	88V~264VAC 124~370VDC (DC input operation possible by connecting AC/L (+), AC/N (-))		
	Frequency	47 ~ 63 Hz		
	Efficiency	87%	87%	89%
	AC Current (Typ.)	3A/115VAC 1.6A/230VAC		
	Inrush Current (Typ.)	Cold start 30A/115VAC 45A/230VAC		
OUTPUT	MODEL No.	DR-100-12	DR-100-15	DR-100-24
	Voltage	12V	15V	24V
	Rated Current	7.5A	6.5A	4.2A
	Current Range	0~7.5A	0~6.5A	0~4.2A
	Rated Power	90W	97.5W	100.8W
	Ripple Noise MAX.	120mVp-p	120mVp-p	150mVp-p
	Voltage Adjustment Range	12 ~ 15V	15 ~ 18V	24 ~ 29V
	Voltage Tolerance	± 2.0%	± 1.0%	± 1.0%
	Line Regulation	± 1.0%	± 1.0%	± 1.0%
	Load Regulation	± 1.0%	± 1.0%	± 1.0%
PROTECTION	Setup Rise Time	270ms, 80ms/230VAC 2700ms, 80ms/115VAC at full load		
	Holdup Time (Typ.)	50ms/230VAC 18ms/115VAC at full load		
	Over Load	105 ~ 135% rated output power Protection Type: Constant current limiting, recovers automatically after fault condition is removed		
	Over Voltage	16 ~ 20V	19 ~ 23V	30 ~ 35V
ENVIRONMENT	Over Temperature	Protection Type: Shut down o/p voltage, re-power onto recover Shut down o/p voltage, re-power on to recover		
	Working Temperature	-20 ~ +60°C (Refer to "Derating Curve")		
	Working Humidity	20 ~ 90% RH non-condensing		
	Storage Temp., Humidity	-40 ~ +85°C, 10-95%RH		
	Temp. Co-efficient	±0.03% / °C (0~50°C)		
SAFETY & EMC	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60 min. each along X, Y, Z axes; Mounting: compliance to IEC60068-2-6		
	Safety Standards	UL60950-1, TUV EN60950-1 approved, design refer to EN50178		
	Withstand Voltage	I/P-O/P:3KVAC		
	Isolation Resistance	I/P-OP: 100M Ohms/500Vdc/25°C/70% RH		
OTHERS	EMC Emission	Compliance to EN61204-3, EN55022, Class B, EN61000-3-2,-3		
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, EN61204-3, Heavy industry level, criteria A		
	M.T.B.F.	486K hrs min. MIL-HDBK-217F (25°C)		
	Packaging	0.35Kg; 36pcs/13.6Kg/0.89CUFT		

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple and 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 as a component which will be installed with final equipment. The final equipment must re-confirmed that it still meets EMC Directives.
5. Harmonic current test at 90% load.
6. Under short circuit or overload >150% conditions, output voltage may shut down for 5 seconds and then go into constant current protection mode.

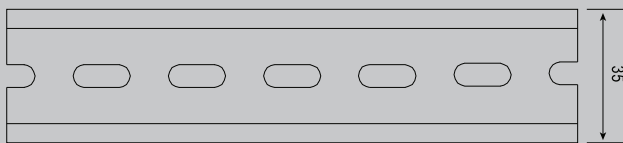
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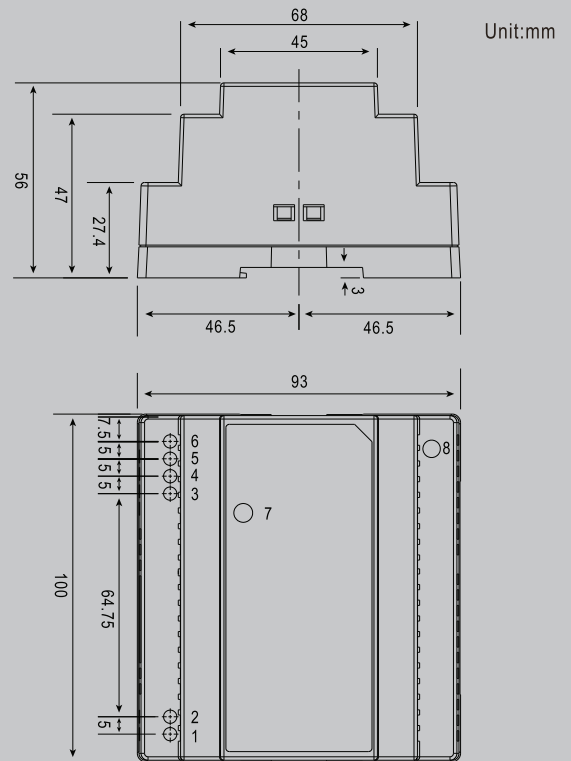
Mechanical Specification

Terminal Pin No. Assignment

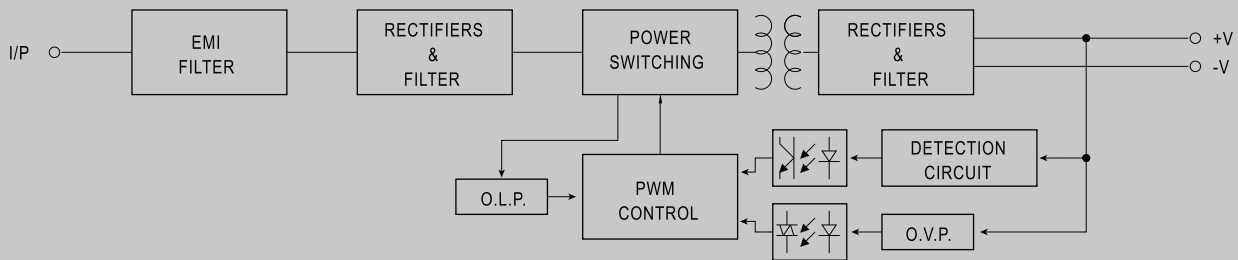
Pin No.	Assignment	Pin No.	Assignment
1	AC/L(+)	5,6	-V
2	AC/N(-)	7	LED
3,4	+V	8	+VADJ.



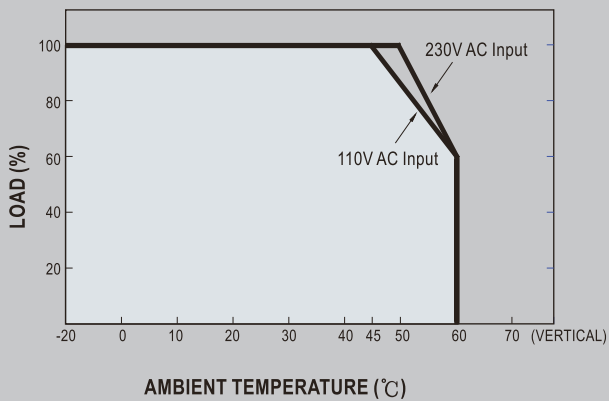
ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15



Block Diagram



Derating Curve



Output Derating VS Input Voltage

