

DR-60 Series

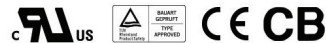
60W Single Output Industrial DIN Rail Power Supply



Case No: 8015FQ
78 x 93 x 56mm

Features

- Universal AC input / Full range
- Protections: Short Circuit / Overload / Over voltage
- Can be installed on DIN rail TS-35/7.5 or 15
- Isolation Class II
- Cooling by free air convection
- UL508 (industrial control equipment) approved
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty



Specification

INPUT	Voltage	88V~264VAC 124~370VDC			
	Frequency	47 ~ 63 Hz			
	Efficiency	76%	82%	83%	84%
	AC Current (Typ.)	1.2A/115VAC 0.8A/230VAC			
	Inrush Current (Typ.)	Cold start 18A/115VAC 36A/230VAC			
OUTPUT	MODEL No.	DR-60-5	DR-60-12	DR-60-15	DR-60-24
	Voltage	5V	12V	15V	24V
	Rated Current	6.5A	4.5A	4A	2.5A
	Current Range	0~6.5A	0~4.5A	0~4A	0~2.5A
	Rated Power	32.5W	54W	60W	60W
	Ripple Noise MAX.	80mVp-p	120mVp-p	120mVp-p	150mVp-p
	Voltage Adjustment Range	4.75 ~ 5.5V	11.1 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
	Voltage Tolerance	± 2.0%	± 1.0%	± 1.0%	± 1.0%
	Line Regulation	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	Load Regulation	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	Setup Rise Time	100ms, 30ms/230VAC 200ms, 30ms/115VAC at full load			
Holdup Time (Typ.)	100ms/230VAC 23ms/115VAC at full load				
PROTECTION	Over Load	105 ~ 160% rated output power Protection Type: Constant current limiting, recovers automatically after fault condition is removed			
	Over Voltage	5.75~6.9V	13.8~16.2V	17.25~20.25V	27.6~32.4V
		Protection Type: Shut down o/p voltage, re-power onto recover			
ENVIRONMENT	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			
	EMC Emission	Compliance to EN55011, EN55032 (CISPR32) Class B, EN61000-3-2,-3			
OTHERS	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.	216.2K hrs min. MIL-HDBK-217F (25°C)			
	Packaging	0.3Kg, 48pcs/15.4Kg/1.02CUFT			

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 be re-confirmed that it still meets EMC Directives.

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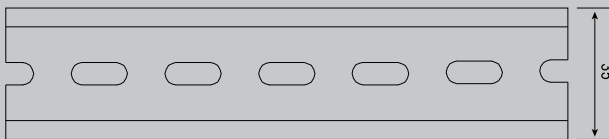
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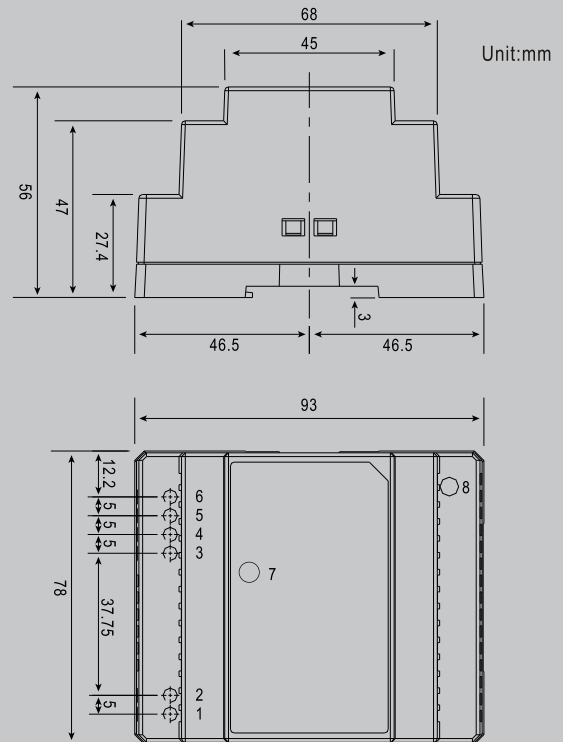
Mechanical Specification

Terminal Pin No. Assignment

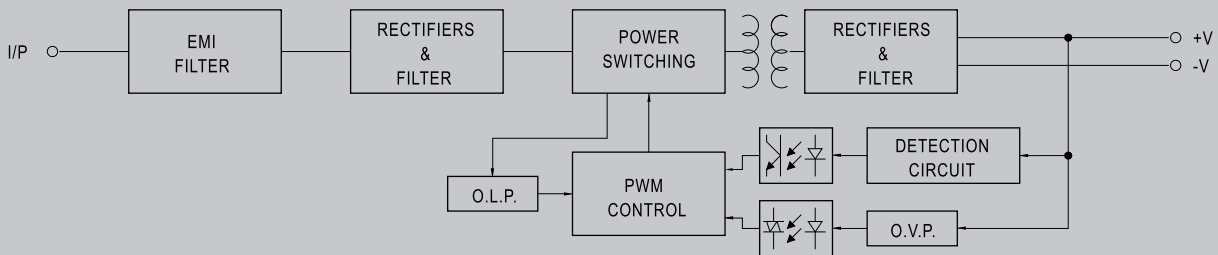
Pin No.	Assignment	Pin No.	Assignment
1	AC/N	5,6	-V
2	AC/L	7	LED
3,4	+V	8	+V ADJ.



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



Block Diagram



Derating Curve

