

# DR-15 Series

## 15W Single Output Industrial DIN Rail Power Supply



Case No: 8018JG  
25 x 93 x 56 mm

### 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 2
- LED indicator for power on
- No load power consumption <0.5W
- 100% full load burn-in test



### Specification

INPUT	<b>Voltage</b>	88V ~ 264VAC universal full range or 120V ~ 370VDC.			
	<b>Frequency</b>	47 ----- 63 Hz			
	<b>Current</b>	<0.88A@115VAC; 0.48A@230VAC input, full load			
	<b>Inrush Current</b>	<35A@115V , <65A@230VAC input, Cold start at 25°C ambient			
OUTPUT	<b>MODEL No.</b>	<b>DR-15-5</b>	<b>DR-15-12</b>	<b>DR-15-15</b>	<b>DR-15-24</b>
	<b>Voltage</b>	5V	12V	15V	24V
	<b>Min Load</b>	0A	0A	0A	0A
	<b>Max Load</b>	2.4A	1.25A	1A	0.063A
	<b>Output Tolerance</b>	± 2%	± 1%	± 1%	± 1%
	<b>Line Regulation</b>	± 1%	± 1%	± 1%	± 1%
	<b>Load Regulation</b>	± 1%	± 1%	± 1%	± 1%
	<b>Ripple Noise MAX.</b>	80mV	120mV	120mV	150mV
	<b>Efficiency (TYP.)</b>	77%	84%	83.5%	85%
	<b>Power</b>	12W	15W	15W	15.2W
PROTECTION	<b>Over Voltage</b>	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V
		Shutdown o/p voltage, clamping by zener diode			
	<b>Over Load &amp; Short Circuit</b>	105~160% rated output power; Constant current limiting, recovers automatically after fault condition is removed			
ELEC. CHAR.	<b>Rise Time</b>	<50mS@ 115~230VAC at full load			
	<b>Hold up Time</b>	>16mS@ 115VAC; 70mS@230VAC at full load			
	<b>Setup Time</b>	<1 Sec @ 115~230VAC			
ENVIRONMENT	<b>Temperature</b>	Operating: -20 ~ +65°C ; Storage: -40~ +85°C			
	<b>Humidity</b>	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)			
SAFETY	<b>Withstand Voltage</b>	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute			
	<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC			
	<b>Safety Standard</b>	UL60950-1; TUV EN60950-1 Approved design refers to EN50178			
EMC	<b>EMI</b>	EN55022; EN55011, EN61204-3 Class B, EN61000-3-2,3			
	<b>EMS</b>	EN61000-4-2,3,4,5,6,8,11; EN55024; EN61000-6-2; EN61204-3			
OTHERS	<b>Cooling</b>	Natural cooling.			
	<b>M.T.B.F.</b>	1172.3K hrs min. MIL-HDBK-217F (°C)			
	<b>Packing</b>	0.1Kg; 140pcs/15Kg/0.92 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.

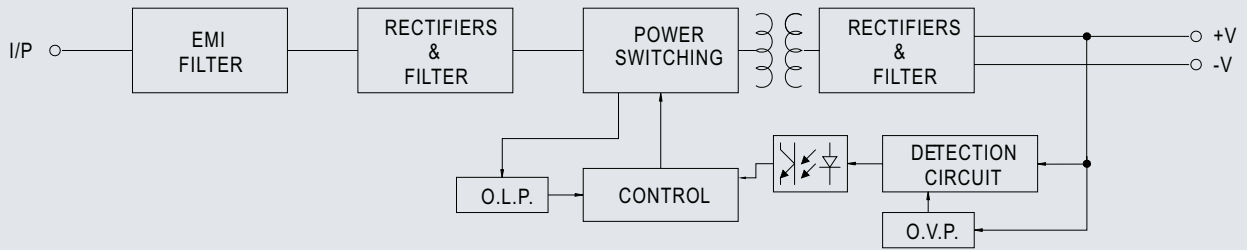
5 Constant current operation region is within 60~100% rated output voltage. Protection type for short circuit is hiccup mode and will recover automatically after fault condition is removed

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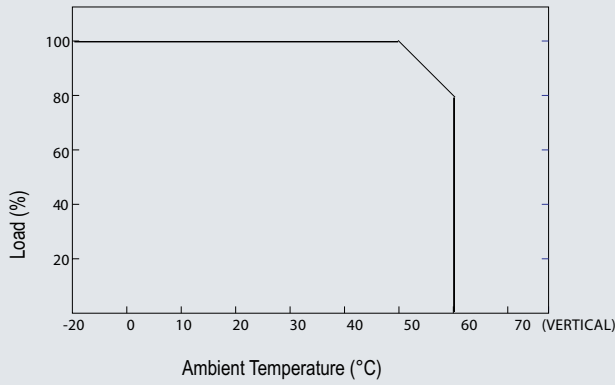
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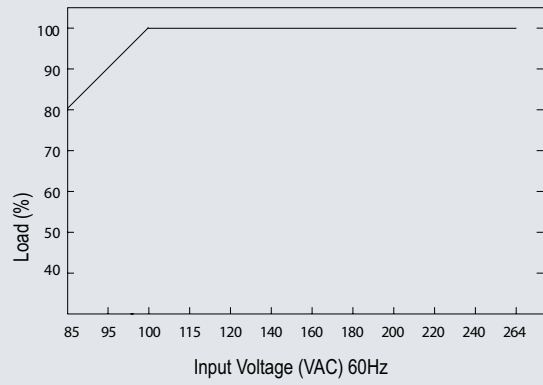
## Block Diagram



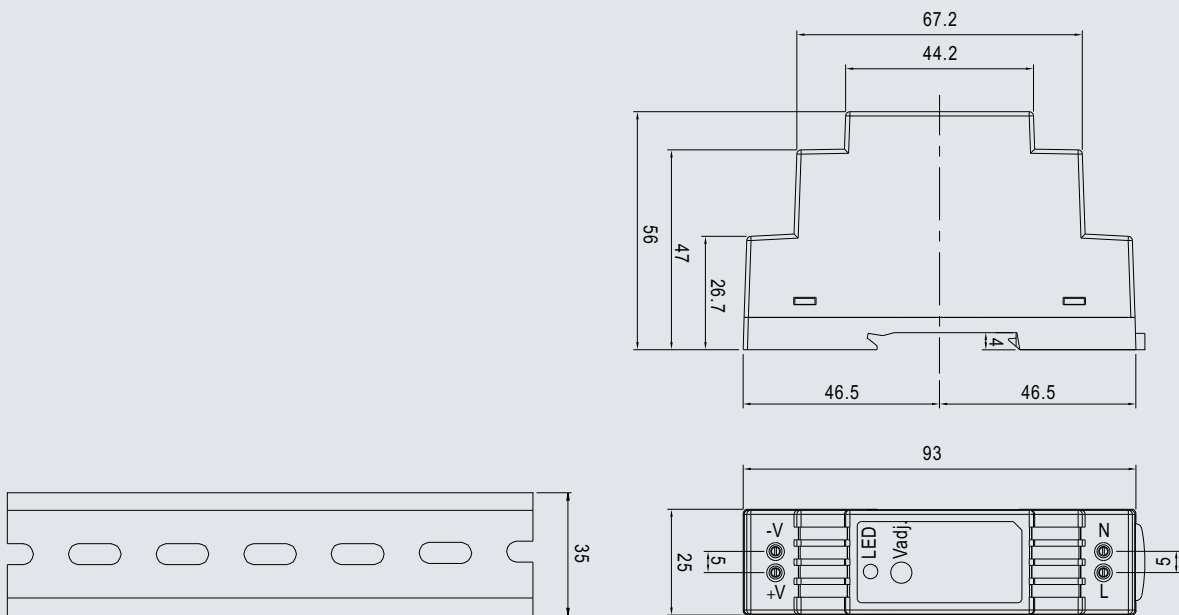
## De-Rating Curve



## Output De-Rating Vs. Input Voltage



## Dimensions



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