

# DR-30 Series

## 30W Single Output Industrial DIN Rail Power Supply



Case No: 8015FQ  
78 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>	85V ~ 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>	<15A@115V , <30A@230VAC input, Cold start at 25°C ambient			
OUTPUT	<b>MODEL No.</b>	<b>DR-30-5</b>	<b>DR-30-12</b>	<b>DR-30-15</b>	<b>DR-30-24</b>
	<b>Voltage</b>	5V	12V	15V	24V
	<b>Rated Current</b>	3A	2A	2A	1.5A
	<b>Current Range</b>	0~3A	0~2A	0~2A	0~1.5A
	<b>Voltage Adj. Range</b>	4.75~5.5V	10.8~13.2V	13.5~16.5V	21.6~26.4V
	<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>	74%	81%	82%	83%
<b>Power</b>	15W	24W	30W	36W	
PROTECTION	<b>Over Voltage</b>	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V
	<b>Over Load</b>	Shutdown o/p voltage, re-power on to recover			
	<b>Rise Time</b>	105~160% rated output power; Constant current limiting, recovers automatically after fault condition is removed			
ELEC. CHAR.	<b>Hold up Time</b>	<30mS@ 115~230VAC at full load			
	<b>Setup Time</b>	>100mS@ 230VAC; 21mS@115VAC at full load			
	<b>Temperature</b>	<0.1 Sec @ 115~230VAC			
ENVIRONMENT	<b>Humidity</b>	Operating: -20 ~ +60°C ; Storage: -40~ +85°C			
	<b>Withstand Voltage</b>	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)			
SAFETY	<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC			
	<b>Safety Standard</b>	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC			
EMC	<b>EMI</b>	UL60950-1; TUV EN60950-1 Approved design refers to EN50178			
	<b>EMS</b>	EN55022; EN55011, EN61204-3 Class B, EN61000-3-2,3			
OTHERS	<b>Cooling</b>	EN61000-4-2,3,4,5,6,8,11; EN55024; EN61000-6-2; EN61204-3			
	<b>M.T.B.F.</b>	Natural cooling			
	<b>Packing</b>	441.5K hrs min. MIL-HDBK-217F (°C)			
		0.27Kg; 48pcs/14Kg/1.02 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

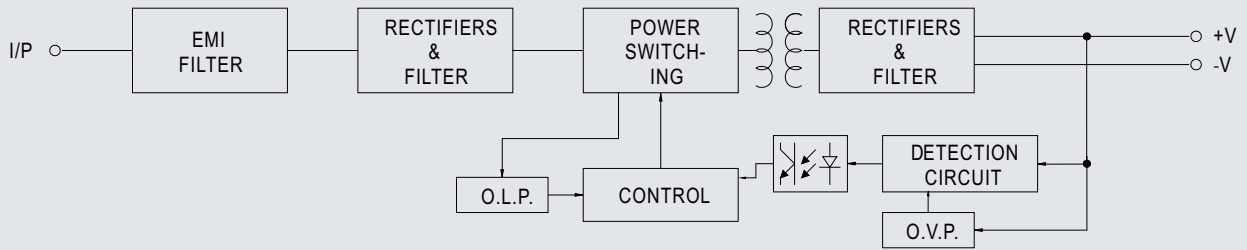
4 The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.

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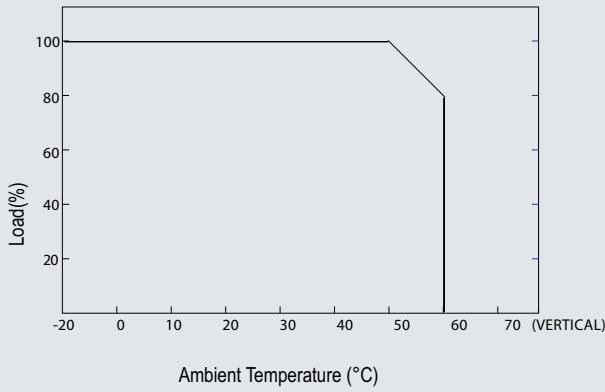
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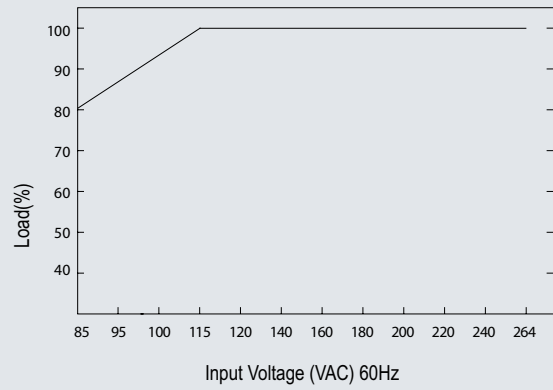
## Block Diagram



## De-Rating Curve



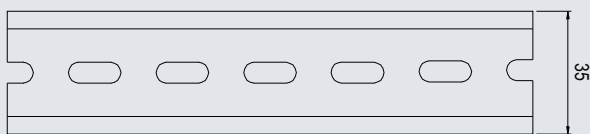
## Output De-Rating Vs. Input Voltage



## Dimensions

Terminal Pin. No Assignment:

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



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

