

DR-45 Series

45W Single Output Industrial DIN Rail Power Supply



Case No: 8012CB
93 x 78 x 67 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
- UL508 (Industrial control equipment) approved
- LED indicator for power on
- Fixed switching frequency at 100KHz
- 100% full load burn-in test



Specification

INPUT	Voltage	85V ~ 264VAC universal full range or 120V ~ 370VDC.			
	Frequency	47 ----- 63 Hz			
	Current	<1.5A@115VAC; 56A@230VAC input, full load			
	Inrush Current	<28A@115V , <30A@230VAC input, Cold start at 25°C ambient			
	Leakage Current	1mA@240VAC			
OUTPUT	MODEL No.	DR-4505	DR-4512	DR-4515	DR-4524
	Voltage	5V	12V	15V	24V
	Min Load	0A	0A	0A	0A
	Max Load	5A	3.5A	2.8A	2A
	Output Tolerance	± 2%	± 1%	± 1%	± 1%
	Line Regulation	± 1%	± 1%	± 1%	± 1%
	Load Regulation	± 1%	± 1%	± 1%	± 1%
	Ripple Noise MAX.	100mV	200mV	240mV	480mV
	Efficiency (TYP.)	72%	77%	77%	80%
	Power	25W	42W	42W	48W
PROTECTION	Over Voltage	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V
		Shutdown o/p voltage, clamping by zener diode			
	Over Temperature	Tj 135°C typically (U1) detect on heatsink of power transistor			
	Shut down o/p voltage, re-power on to rever				
	Over Load	105~160% rated output power; Constant current limiting, recovers automatically after fault condition is removed			
ELEC. CHAR.	Rise Time	<60mS@ 230VAC at full load			
	Hold up Time	>60mS@ 230VAC at full load			
	Setup Time	<0.8 Sec @ 230VAC			
ENVIRONMENT	Temperature	Operating: -10 ~ +50°C ; Storage: -20~ +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	UL508; TUV EN60950-1 Approved			
EMC	EMI	EN55022; EN55011, EN61000-3-2,3			
	EMS	EN61000-4-2,3,4,5,6,8,11; EN55024; EN61000-6-2			
OTHERS	Cooling	Natural cooling			
	M.T.B.F.	364.6K hrs min. MIL-HDBK-217F (°C)			
	Packing	0.31Kg; 48pcs/17.5Kg/1.3 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

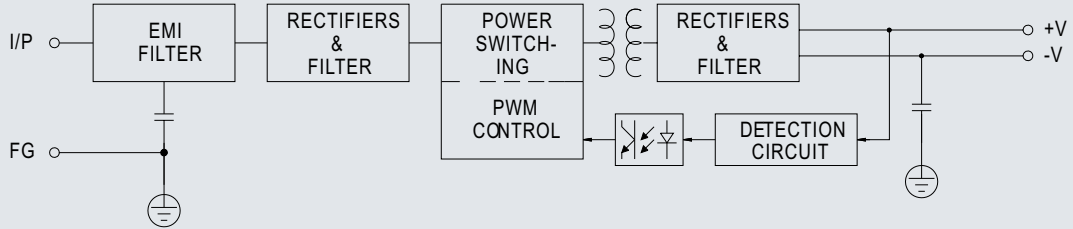
4 The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.

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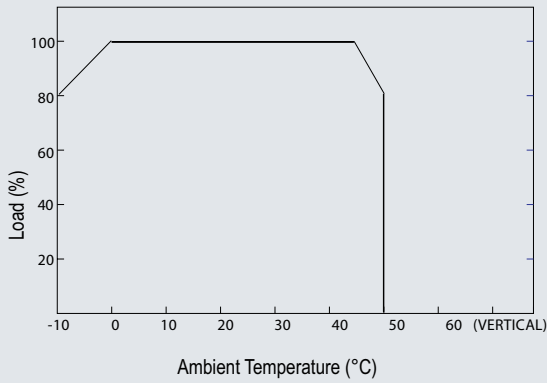
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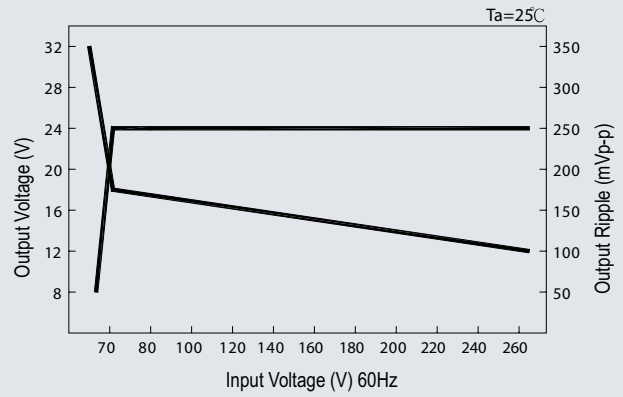
Block Diagram



De-Rating Curve



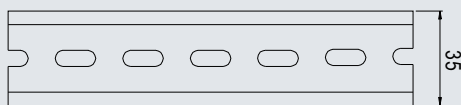
Static Characteristics (24V)



Dimensions

Terminal Pin. No Assignment:

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



Install Din-Rail TS35/7.5 or TS35/15

