



DR-45 Series

45Watts single output industrial DIN-Rail power supply



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
- UL 508(industrial control equipment)approved
- LED indicator for power on
- 100% full load burn-in test
- Fix switching frequency at 100KHz
- 3 years warranty



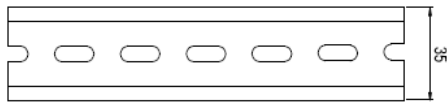
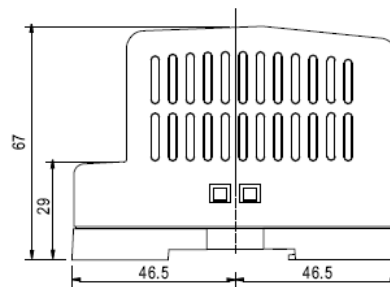
SPECIFICATION

Model		DR-45-05	DR-45-12	DR-45-15	DR-45-24
Output	DC voltage	5V	12V	15V	24V
	Rated Current	5A	3.5A	2.8A	2A
	Current Range	0 ~ 5A	0 ~ 3.5A	0 ~ 2.8A	0 ~ 2A
	Rated Power	25 watts	42 Watts	42 Watts	48 Watts
	Ripple & Noise (max.) *Note.2*	100mVp-p	200mVp-p	240mVp-p	480mVp-p
	Voltage ADJ. Range	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
	Voltage Tolerance *Note.3*	±2.0%	±1.0%	±1.0%	±1.0%
	Line Regulation	±1.0%			
	Load Regulation	±1.0%			
	Setup, Rise Time	800ms, 60ms/230VAC at full load			
Hold Up Time (Typ.)	100ms/230VAC at full load				
Input	Voltage Range	85 ~ 264VAC 120 ~ 370VDC			
	Frequency Range	47 ~ 63Hz			
	Efficiency (Typ.)	72%	77%	77%	80%
	AC Current (Typ.)	1.5A/115VAC 0.75A/230VAC			
	Inrush Current (Typ.)	Cold Start 28A/115VAC 56A/230VAC			
Leakage Current	<1mA/240VAC				
Protection	Overload	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed			
	Over Voltage	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V
	Over Temperature	Tj135°C typically (U1) detect on heat sink of power transistor Protection type : Shut off o/p voltage, clamping by zener diode			
Environment	Working Temp.	-10 ~ +50°C (Refer to output load derating curve)			
	Working Humidity	20 ~ 90% RH (non-condensing)			
	Storage Temp., Humidity	-20 ~ 85°C, 10 ~ 95%RH			
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)			
Safety & EMC *Note4*	Vibration	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes; Mounting : Compliance to IEC60068-2-6			
	Safety Standards	UL508, TUV EN60950-1 approved			
	Withstand Voltage	I/P-O/P : 3KVAC I/P-FG : 1.5KVAC		O/P-FG : 0.5KVAC	
	Isolation Resistance	I/P-O/P, IP-FG, O/P-FG : 100M Ohms/500VDC			
	EMI conduction & Radiation	Compliance to EN55011, EN55022 (CISPR22) Class B			
Harmonic Current	Compliance to EN61000-3-2, -3				

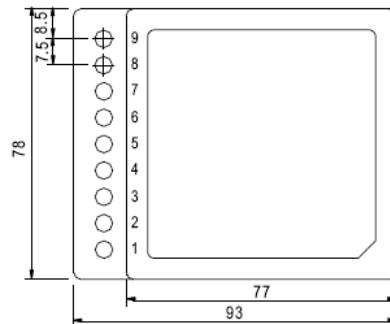
EMS Immunity		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A
Others	MTBF	364.6K hrs min. MIL-HDBK-217F (25°C)
	Dimension	93 x 78 x 67mm (L x W x H)
	Packing	0.31Kg; 48pcs/16.1Kg/1.3CUFT
Note	<ol style="list-style-type: none"> 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 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 a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 	

DIMENSIONS

Case No. 918A Unit:mm



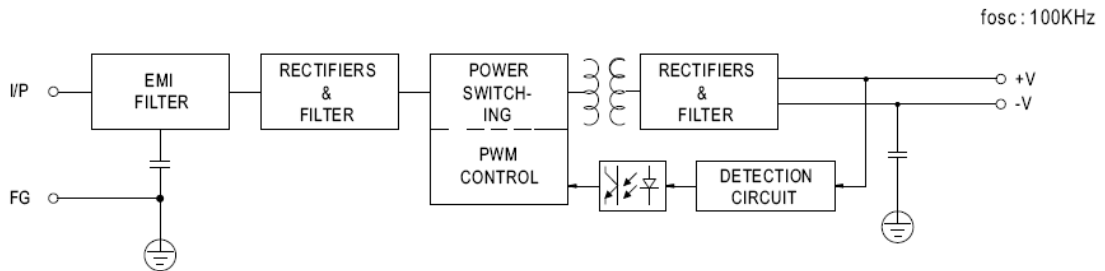
Install DINrail TS35/7.5 or TS35/15



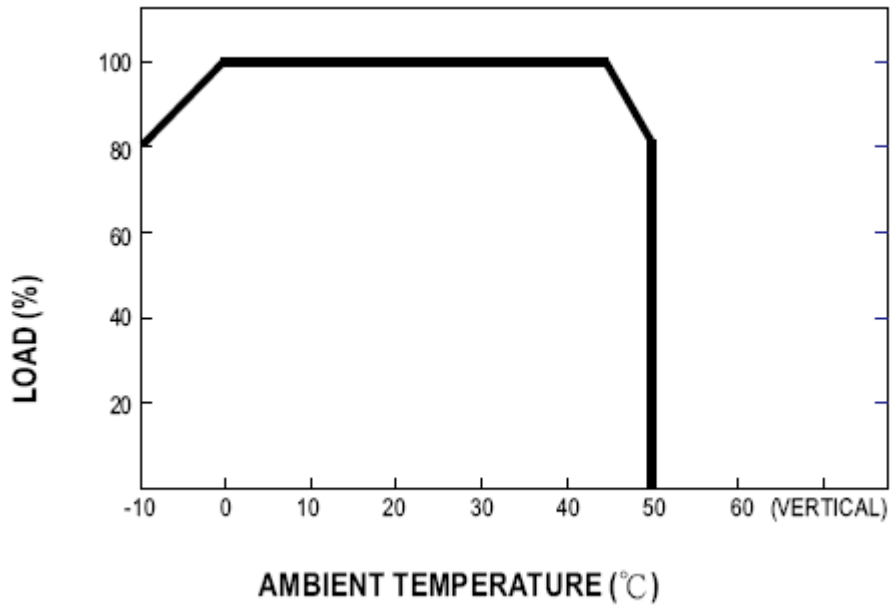
Terminal Pin No. Assignment

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

BLOCK DIAGRAM



DERATING CURVE



STATIC CHARACTERISTICS (24V)

