



240W Three Phase Industrial DIN RAIL Power Supply

DRT-240 series



■ Features :

- Three-Phase AC 340 ~ 550V wide range input
- High efficiency 89% and low dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- Fixed switching frequency at 70KHz
- 3 years warranty

User's Manual

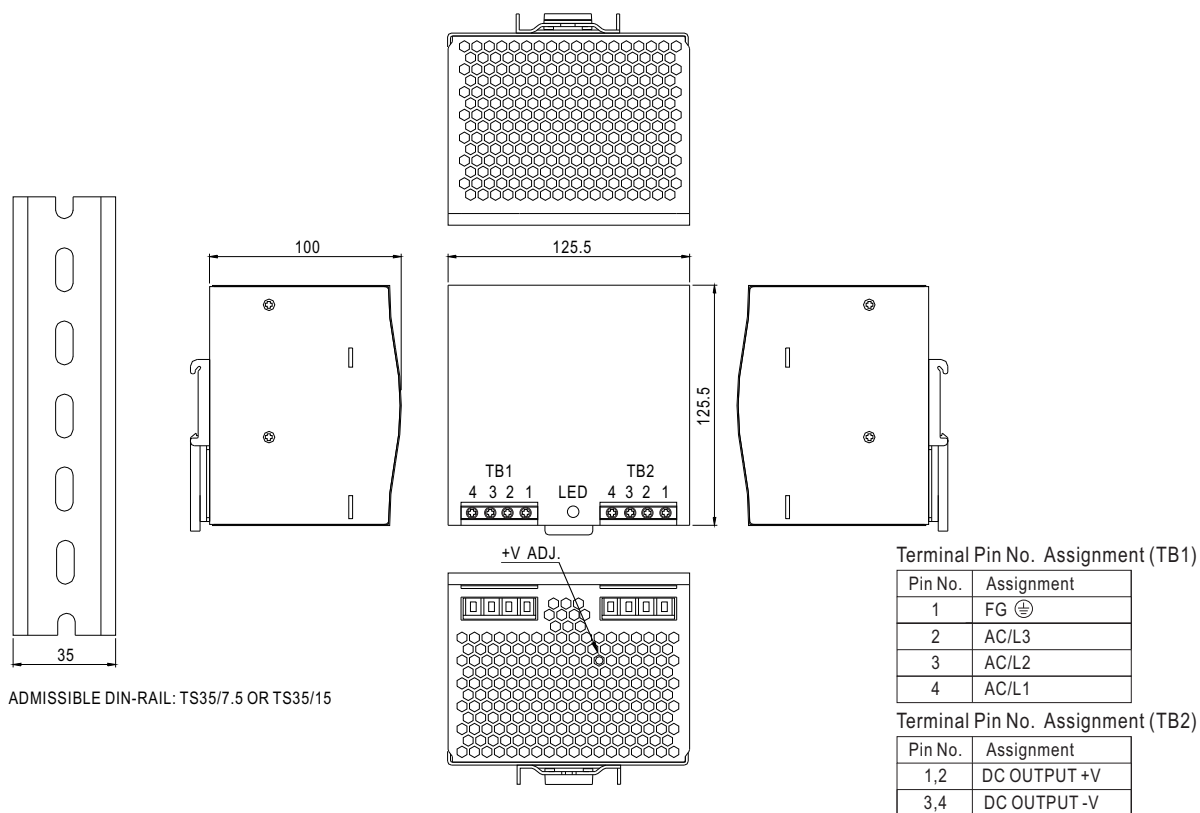


SPECIFICATION

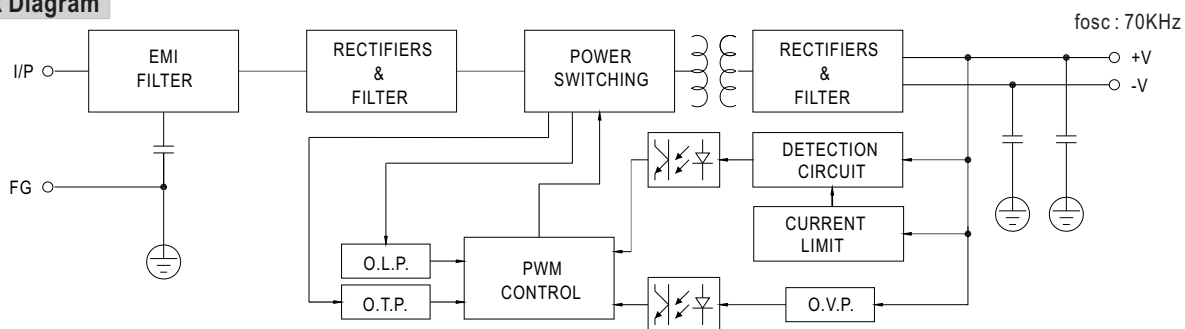
MODEL		DRT-240-24		DRT-240-48	
OUTPUT	DC VOLTAGE	24V		48V	
	RATED CURRENT	10A		5A	
	CURRENT RANGE	0 ~ 10A		0 ~ 5A	
	RATED POWER	240W		240W	
	RIPPLE & NOISE (max.) <small>Note.2</small>	80mVp-p		80mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V		48 ~ 55V	
	VOLTAGE TOLERANCE <small>Note.3</small>	±1.0%		±1.0%	
	LINE REGULATION	±0.5%		±0.5%	
	LOAD REGULATION	±0.5%		±0.5%	
	SETUP, RISE, HOLD UP TIME	1200ms, 40ms, 20ms/400VAC		800ms, 40ms, 40ms/500VAC at full load	
INPUT	VOLTAGE RANGE <small>Note.5</small>	Three-Phase 340 ~ 550VAC (Dual phase operation possible)		480 ~ 780VDC	
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	89%			
	AC CURRENT	0.95A/400VAC 0.75A/500VAC			
	INRUSH CURRENT (max.)	COLD START 50A			
	LEAKAGE CURRENT	<3.5mA / 530VAC			
PROTECTION	OVERLOAD	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	30 ~ 36V		59 ~ 66V	
		Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	100℃ ±5℃ (TSW) detect on heatsink of power switch Protection type : Shut down o/p voltage, recovers automatically after temperature goes down			
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
SAFETY & EMC <small>(Note 4)</small>	SAFETY STANDARDS	UL508, UL60950-1, EAC TP TC 004 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2.0KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH			
	EMC EMISSION	Compliance to EN55032 (CISPR32), EN61204-3 Class B, EAC TP TC 020			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020			
OTHERS	MTBF	114.6K hrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	125.5*125.2*100mm (W*H*D)			
	PACKING	1.3Kg; 12pcs/16.6Kg/1.49CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25℃ 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. 5. Dual phase operation: derating of 20% is required. 6. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				

Mechanical Specification

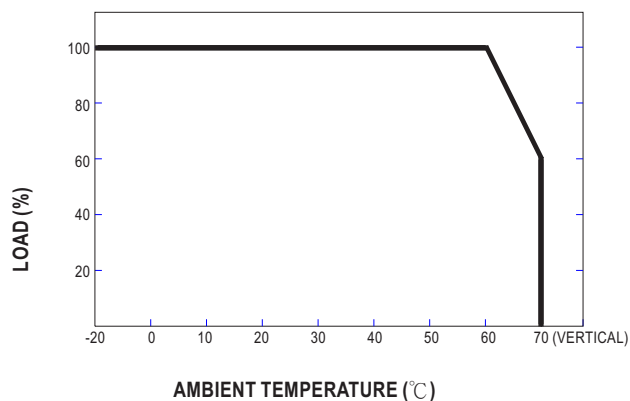
Case No. 922A Unit:mm



Block Diagram



Derating Curve



Static Characteristics

