



10W Single Output Industrial DIN Rail Power Supply

MDR-10 series



■ 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
- Built in DC OK active signal
- LED indicator for power on
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty

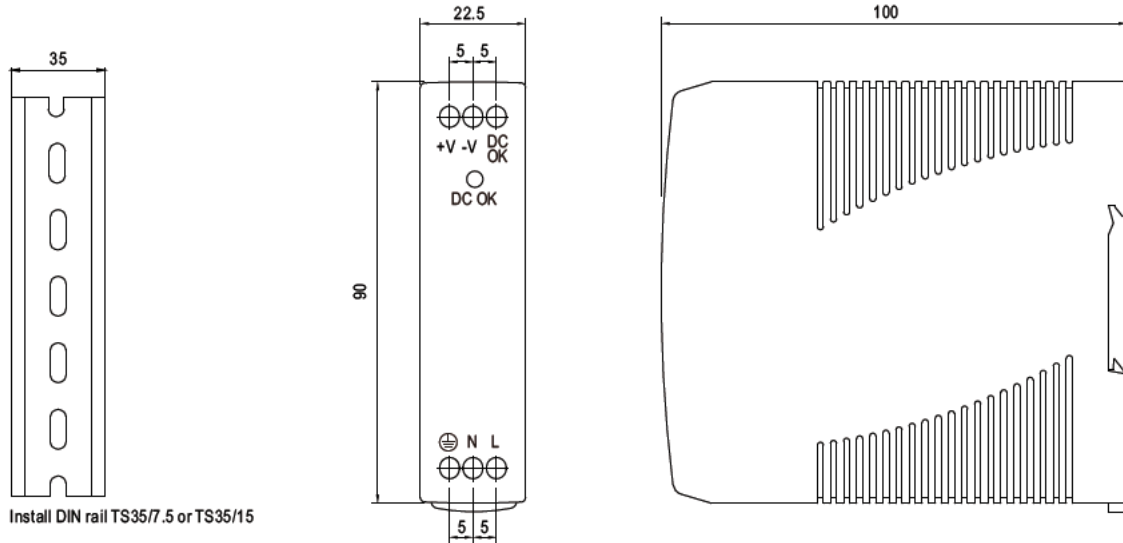


SPECIFICATION

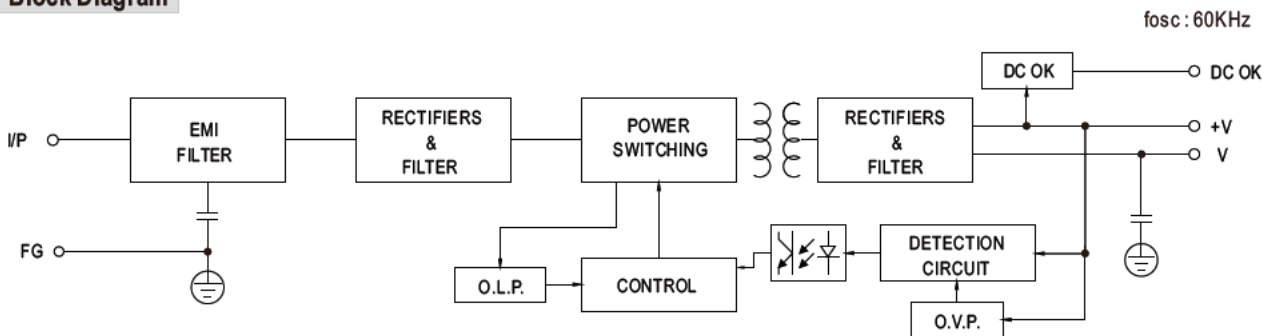
MODEL		MDR-10-5	MDR-10-12	MDR-10-15	MDR-10-24
OUTPUT	DC VOLTAGE	5V	12V	15V	24V
	RATED CURRENT	2A	0.84A	0.67A	0.42A
	CURRENT RANGE	0 ~ 2A	0 ~ 0.84A	0 ~ 0.67A	0 ~ 0.42A
	RATED POWER	10W	10W	10W	10W
	RIPPLE & NOISE (max.) <small>Note.2</small>	80mVp p	120mVp p	120mVp p	150mVp p
	VOLTAGE TOLERANCE <small>Note.3</small>	± 5.0%	± 3.0%	± 3.0%	± 2.0%
	LINE REGULATION	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	LOAD REGULATION	± 5.0%	± 3.0%	± 3.0%	± 2.0%
	SETUP, RISE TIME <small>Note.5</small>	500ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load			
	HOLD UP TIME (Typ.)	120ms/230VAC 25ms/115VAC at full load			
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	77%	81%	81%	84%
	AC CURRENT (Typ.)	0.33A/115VAC 0.21A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 35A/115VAC 70A/230VAC			
	LEAKAGE CURRENT	<1mA / 240VAC			
PROTECTION	OVERLOAD	Above 105% rated output power Protection type : Hiccup mode, 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
		Protection type : Shut down o/p voltage, re power on to recover			
FUNCTION	DC OK ACTIVE SIGNAL (max.)	3.75 ~ 6V / 50mA	9 ~ 13.5V / 40mA	11.5 ~ 16.5V / 40mA	18 ~ 27V / 20mA
ENVIRONMENT	WORKING TEMP.	20 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non condensing			
	STORAGE TEMP., HUMIDITY	40 ~ +85°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 50°C)			
	VIBRATION	Component: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, TUV EN60950 1 approved			
	WITHSTAND VOLTAGE	I/P O/P:3KVAC I/P FG:2KVAC O/P FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P O/P, I/P FG, O/P FG:100M Ohms / 500VDC / 25°C / 70% RH			
	EMC EMISSION	Compliance to EN55011, EN55022 (CISPR22), EN61204 3 Class B, EN61000 3 2, 3			
	EMC IMMUNITY	Compliance to EN61000 4 2, 3, 4, 5, 6, 8, 11, EN55024,EN61000 6 1,EN61204 3, light industry level, criteria A			
OTHERS	MTBF	584K hrs min. MIL HDBK 217F (25°C)			
	DIMENSION	22.5*90*100mm (W*H*D)			
	PACKING	0.17Kg; 72pcs/13.2Kg/0.91CUFT			
NOTE	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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 5. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.				

Mechanical Specification

Case No. 956 Unit:mm

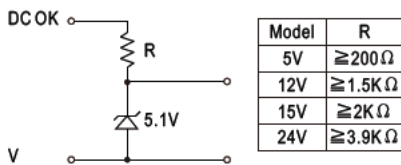


Block Diagram

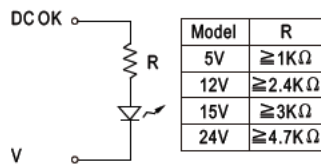


Application of DC OK Active Signal

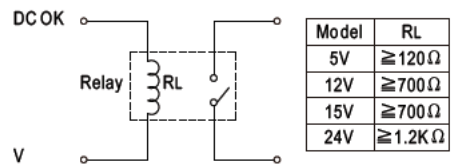
(a) 5V signal



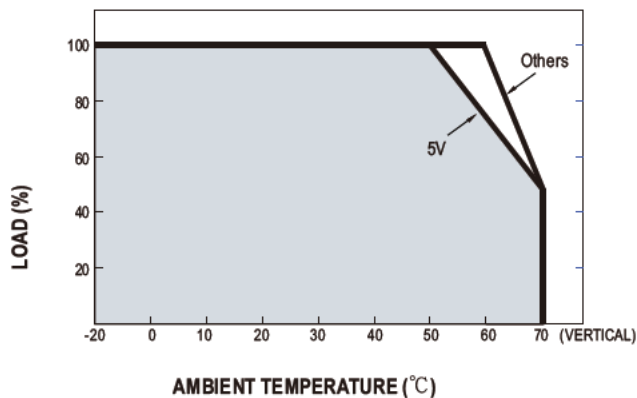
(b) LED



(c) Relay



Derating Curve



Output Derating VS Input Voltage

