



96W Single Output Industrial DIN Rail Power Supply



■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- ZCS/ZVS technology to reduce power dissipation
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- DC OK relay contact
- No load power consumption<1W
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty













User's Manual

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

SPECIFICATION

MODEL		MDR-100-12	MDR-100-24	MDR-100-48
OUTPUT	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	7.5A	4A	2A
	CURRENT RANGE	0 ~ 7.5A	0~4A	0 ~ 2A
	RATED POWER	90W	96W	96W
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 30V	48 ~ 56V
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME Note.5	3000ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load		
	HOLD UP TIME (Typ.)	50ms/230VAC 20ms/115VAC at full load		
INPUT	VOLTAGE RANGE Note.6	85 ~ 264VAC 120 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF≥0.95/230VAC PF≥0.98/115VAC	at full load	
	EFFICIENCY (Typ.)	83%	86%	87%
	AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC		
	LEAKAGE CURRENT	<1mA/240VAC		
PROTECTION		105 ~ 150% rated output power		
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE	15.6 ~ 18V	31.2 ~ 36V	57.6 ~ 64.8V
		Protection type: Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down o/p voltage, auto-recovery or re-power on to recover		
FUNCTION	DC OK SIGNAL	Relay contact rating(max.): 30V/1A resistive		
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°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, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6		
	SAFETY STANDARDS	UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1, AS/NZS 60950.1 approved		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
EMC (Note 4)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32),BS EN/EN61204-3 Class B,BS EN/EN61000-3-2,-3,EAC TP TC 020,CNS13438 Class B		
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3, heavy industry level, EAC TP TC 020		
OTHERS	MTBF	2217.8K hrs min. Telcordia SR-332 (Bellcore) ; 346.5K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	55*90*100mm (W*H*D)		
	PACKING	0.42Kg; 30pcs/13.6Kg/0.82CUFT		
NOTE	All parameters NOT special Ripple & noise are measure Tolerance : includes set up The power supply is conside EMC directives. For guidant (as available on http://www.tolerance.com/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/starter/s	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets not on how to perform these EMC tests, please refer to "EMI testing of component power supplies."		

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