



User's Manual



96W Single Output Industrial DIN Rail Power Supply



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

■ 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











SPECIFICATION

■ GTIN CODE

MODEL		MDR-100-12	MDR-100-24	MDR-100-48	
	DC VOLTAGE	12V	24V	48V	
ОИТРИТ	RATED CURRENT	7.5A	4A	2A	
		0 ~ 7.5A	0 ~ 4A	0~2A	
	CURRENT RANGE				
	RATED POWER	90W	96W	96W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 30V	48 ~ 56V	
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	
	LINE REGULATION	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±1.0% ±1.0%			
		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≥0.98/115VA	C at full load		
	EFFICIENCY (Typ.)	83%	86%	87%	
	AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC 0.8A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC			
	LEAKAGE CURRENT	<1mA / 240VAC			
PROTECTION	OVERLOAD	105 ~ 150% rated output power			
		Protection type: Constant current limiting,	recovers automatically after fault condition	n is removed	
	OVER VOLTACE	15.6 ~ 18V	31.2 ~ 36V	57.6 ~ 64.8V	
	OVER VOLTAGE	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	Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. For guidan- (as available on https://www Length of set up time is me Deating maybe needed unc The ambient temperature d	specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. neasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. set up tolerance, line regulation and load regulation. considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." s://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) e is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. ded under low input voltages, please check the derating curve for more detail. rature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).			

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