



■ 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









MODEL		MDR-100-12	MDR-100-24	MDR-100-48	
ОИТРИТ	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	Cat full load		
	EFFICIENCY (Typ.)	85%	86%	88%	
	AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC	1		
	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			
		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	$90^{\circ}\text{C} \pm 10^{\circ}\text{C}$ (RTH2) detect on heatsink of power transistor			
		Protection type: 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 & EMC (Note 4)	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, 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, EN61000-6-2, EN61204-3, heavy industry level, criteria A			
OTHERS	MTBF	346K 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 consided EMC directives. Length of set up time is measure.	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 easured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. der low input voltages, please check the derating curve for more detail.			
				File Name:MDR-100-SPEC 2013-10	



