



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



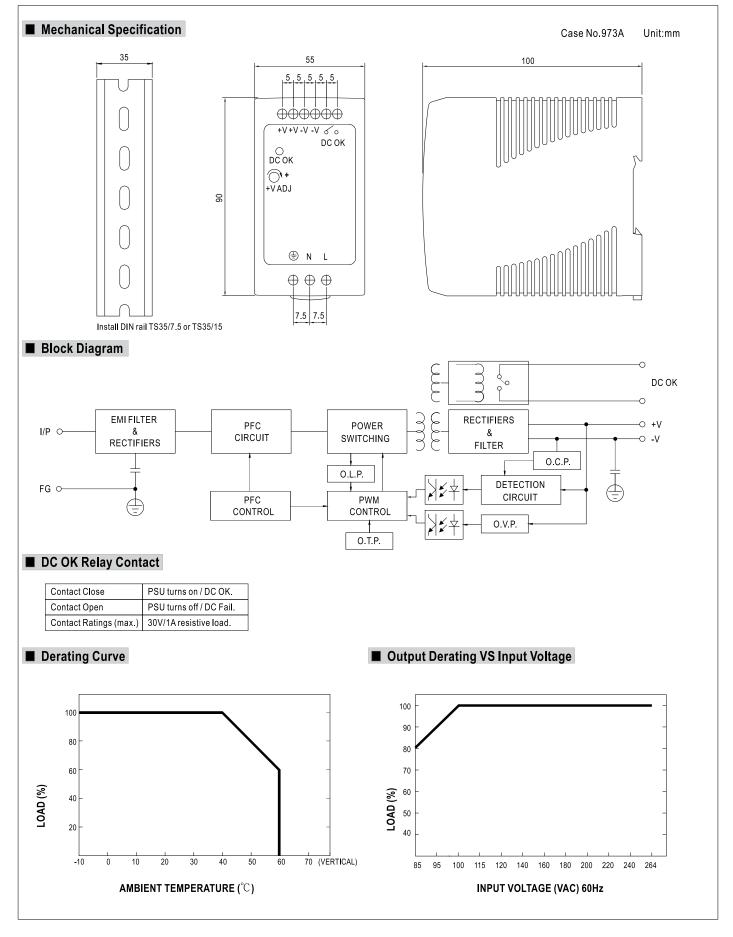
SPECIFICATION

			RoHS
	MDR-100-12	MDR-100-24	MDR-100-48
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		
VOLTAGE RANGE Note.6	85 ~ 264VAC 120 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz PF≧0.95/230VAC PF≧0.98/115VAC at full load		
POWER FACTOR (Typ.)			
EFFICIENCY (Typ.)	83%	86%	87%
AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC COLD START 30A/115VAC 60A/230VAC		
INRUSH CURRENT (Typ.)			
LEAKAGE CURRENT	<1mA / 240VAC		
PROTECTION OVER VOLTAGE	105 ~ 150% rated output power		
	Protection type : Constant current limiting, recovers automatically after fault condition is removed		
	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		
DC OK SIGNAL	Relay contact rating(max.): 30V/1A resistive		
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 ±0.03%/°C (0 ~ 50°C)		
TEMP. COEFFICIENT			
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 EN60950-1, EAC TP TC 004, BSMI CNS14336-1, AS/NZS 60950.1 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℃/ 70% RH		
EMC EMISSION	Compliance to EN55011, EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020, CNS13438 Class B		
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A, EAC TP TC 020		
MTBF	346K hrs min. MIL-HDBK-217F (25°C)		
DIMENSION	55*90*100mm (W*H*D)		
PACKING	0.42Kg; 30pcs/13.6Kg/0.82CUFT		
 Ripple & noise are measure Tolerance : includes set up The power supply is conside EMC directives. For guidance Length of set up time is measure 	d at 20MHz of bandwidth by using a 12" to tolerance, line regulation and load regulati ered a component which will be installed in ce on how to perform these EMC tests, ple asured at first cold start. Turning ON/OFF 1	wisted pair-wire terminated with a 0.1uf & 4 on. to a final equipment. The final equipment r ease refer to "EMI testing of component po the power supply may lead to increase of t	47uf parallel capacitor. must be re-confirmed that it still meets wer supplies."
	RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.5 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.6 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD OVER VOLTAGE OVER TEMPERATURE DC OK SIGNAL WORKING TEMP. WORKING TEMP. WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. The power supply is conside EMC directives. For guidance 5. Length of set up time is mea 6. Deating maybe needed und	DC VOLTAGE 12V RATED CURRENT 7.5A CURRENT RANGE 0 ~ 7.5A RATED POWER 90W RIPPLE & NOISE (max.) Note.2 120mVp-p VOLTAGE ADJ. RANGE 12 ~ 15V VOLTAGE TOLERANCE Note.3 ± 1.0% LINE REGULATION ± 1.0% LOAD REGULATION ± 1.0% LOAD REGULATION ± 1.0% SETUP, RISE TIME Note.5 SOMS/230VAC 20ms/115VAC at full to VOLTAGE RANGE Note.6 S5 ~ 264VAC 120 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PS≥ 0.95/230VAC PF≧0.95/230VAC 0.8A/230VAC INRUSH CURRENT (Typ.) 1.3A/115VAC 0.8A/230VAC 105 ~ 150% rated output power OVER VOLTAGE Protection type : Constant current limiting. 0VER VOLTAGE Shit down o/p voltage, auto-recovery or r 0VER VOLTAGE Shut down o/p voltage, auto-recovery or r 0VER VOLTAGE Shut down o/p voltage, auto-recovery or r 0VER VOLTAGE Shut down o/p voltage, auto-recovery or r 0VCK SIGNAL Relay contact rating(ma	DC VOLTAGE 12V 24V RATED CURRENT 7.5A 4A CURRENT RANGE 0 ~ 7.5A 0 - 4A RATED POWER 90W 96W RIPPLE & NOISE (max.) Note.2 120mVp.p 150mVp.p VOLTAGE ADJ. RANGE 12 - 15V 24 ~ 30V VOLTAGE TOLERANCE Note.3 ± 1.0% ± 1.0% LINE REGULATION ± 1.0% ± 1.0% LOAD REGULATION ± 1.0% ± 1.0% SETUP, RISE TIME Note.5 3000ms, 50ms/230VAC 3000ms, 50ms/15VAC at full load VOLTAGE RANGE Note.6 85 ~ 264VAC 120 ~ 370VDC FREQUENCY RANGE FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PS = 0.98/230VAC 100.4 FIFICIENCY (Typ.) 83% 86% 64 CURRENT (Typ.) OVER LOCAR (Typ.) PS = 0.98/230VAC 86% 64 AC CURRENT (Typ.) 1.3/115VAC 0.84/230VAC 101 ad 110ad EFFICIENCY (Typ.) 83% 86% 64 64 OVER VOLTAGE 105 ~ 150% rated output power

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TRC ELECTRONICS, INC. 1.888.612.9514





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