







■ 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



■ GTIN CODE

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

SPECIFICATION

CUL US R33100 ROHS	TPTC004	TOWNstatus of To	CB (€ CE
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SPECIFIC	ATION		ر کی ۔	R33100 RoHS TPTC004 BS EN/I	EN62368-1 IEC62368-1			
MODEL		MDR-20-5	MDR-20-12	MDR-20-15	MDR-20-24			
ОИТРИТ	DC VOLTAGE	5V	12V	15V	24V			
	RATED CURRENT	3A	1.67A	1.34A	1A			
	CURRENT RANGE	0 ~ 3A	0 ~ 1.67A	0 ~ 1.34A	0 ~ 1A			
	RATED POWER	15W	20W	20W	24W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p			
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%			
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%			
	SETUP, RISE TIME Note.5	5 500ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	50ms/230VAC 20ms/115VAC at full load						
	VOLTAGE RANGE	NGE 85 ~ 264VAC 120 ~ 370VDC						
INPUT	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	76%	80%	81%	84%			
	AC CURRENT (Typ.)	0.55A/115VAC 0.35A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC						
	LEAKAGE CURRENT	<1mA / 240VAC						
		105 ~ 160% rated output power						
	OVERLOAD	Protection type : Constant current limiting, recovers automatically after fault condition is removed						
PROTECTION		5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V			
	OVER VOLTAGE	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			
wo	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	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 STANDARDS	UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1, AS/NZS 62368.1 approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
(Note 4)	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/EN55024,BS EN/EN61000-6-1,BS EN/EN61204-3, light industry level, EAC TP TC 020						
OTHERS	MTBF	2780.8K hrs min. Telcordia SR-332 (Bellcore) ; 236.9K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	22.5*90*100mm (W*H*D)						
	PACKING	0.17Kg; 72pcs/13.2Kg/1.04CUFT						
NOTE	Ripple & noise are measure Tolerance : includes set up to the power supply is conside EMC directives. For guidance (as available on http://www.rst. Length of set up time is measured. The ambient temperature de	Il parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ipple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor. olerance: includes set up tolerance, line regulation and load regulation. he 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 MC 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/ ength 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. he ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						