MDR-20 Series

20W Single Output Industrial DIN Rail Power Supply



Features

- Universal AC input / Full range
- Protections: Short Circuit / Overload / Over voltage /
- Can be installed on DIN rail TS-35/7.5 or 15
- Built in DC OK active signal
- Cooling by free air convection
- LED indicator for power on
- No load power consumption <0.75W
- 100% full load burn-in test
- 3 years warranty







Specificatio	n					
INPUT	Voltage	85~264VAC 120~370V	DC			
	Frequency	47 ~ 63 Hz				
	Efficiency	76%	80%	81%	84%	
	AC Current (Typ.)	0.55A/115VAC				
	Inrush Current (Typ.)	Cold start 20A/115VAC	40A/230VAC			
	Leakage Current	<1mA/240VAC				
ОИТРИТ	MODEL No.	MDR-20-5	MDR-20-12	MDR-20-15	MDR-20-24	
	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.	80Vp-p	120Vp-p	120mVp-p	150mVp-p	
	Voltage Adjustment Range	4.75~5.5V	10.8~13.2V	13.5~16.5V	21.6~26.4V	
	Voltage Tolerance	± 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	500ms, 30ms/230VAC	1000ms, 30ms/115VAC at ful	l load		
	Holdup Time (Typ.)	50ms/230VAC 20ms/115VAC at full load				
PROTECTION	Over Load	105~160% rated output power				
		Protection Type: Constant current limiting, recovers automatically after fault condition is removed				
	Over Voltage	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V	
		Protection Type: Shut down o/p voltage, re-power on to recover				
FUNCTION	DC OK Active Signal	3.75 ~ 6V/50mA	9 ~ 13.5V/40mA	11.5 ~ 16.5V/40mA	18 ~ 27V/20mA	
ENVIRONMENT	Working Temperature	-20~+70°C (Refer to "Derating Curve")				
	Working Humidity	20~90% RH non-condensing				
	Storage Temp., Humidity	-40- +85°C, 10-95%RH				
	Temp. Co-efficient	±0.03% / °C (0~50°C)				
	Vibration	10~500Hz, 2G 10min./1cycle, 60 min. each along X, Y, Z axes; Mounting: compliance to IEC60068-2-6				
SAFETY & EMC	Safety Standards	UL508, TUV EN60950-1 approved				
	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-0P, I/P-FG, 0/P-FG:>100M 0hms/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, EN61000-6-1, EN61204-3, light industry level, criteria A				
OTHERS	M.T.B.F.	236.9K hrs min. MIL-HDBK-217F (25°C)				
	Packaging	0.19Kg; 72pcs/14.7Kg/0	.91CUFT			

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 Tolerance: includes set up tolerance, line regulation and load regulation.
 The power supply is considered as a component which will be installed with final equipment. The final equipment must re-confirmed that it still meets EMC Directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
- 5. Length of setup time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the setup time.

