



MDR-20-24

20W SINGLE OUTPUT INDUSTRIAL DIN RAIL POWER SUPPLY

Specifications

Input	
Voltage range	85 ~ 264VAC 120 ~ 370VDC
Frequency range	47 ~ 63Hz
Efficiency (Typ.)	84%
AC Current (Typ.)	0.55A/115VAC 0.35A/230VAC
Inrush Current (Typ.)	COLD START 20A/115VAC 40A/230VAC
Leakage current	<1mA / 240VAC
Output	
DC Voltage	24V
Rated Current	1A
Current Range	0 ~ 1A
Rated power	24W
Ripple & noise (max.) Note.2	150mVp-p
Voltage ADJ. range	21.6 ~ 26.4V
Voltage Tolerance Note.3	±1.0%
Line Regulation	±1.0%
Load regulation	±1.0%
Setup, rise Time Note.5	50ms/230VAC 0ms/115VAC at full load
Hold up time (Typ.)	85 ~ 264VAC 120 ~ 370VDC
Protection	
Overload	105 ~ 160% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed
Over voltage	27.6 ~ 32.4V Protection type : Shut down o/p voltage, re-power on to recover
Function	
DC OK Active Signal (max.)	18 ~ 27V / 20mA
Environmental	
Working temp.	-20 ~ +70°C (Refer to output load 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, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6

Safety & EMC (Note 4)	
Safety standards	UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant
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
EMI Conduction & Radiation	Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class
Hsrmonic current	Compliance to EN61000-3-2, -3
EMS immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-1, EN61204-3, light industry level, criteria A
Others	
MTBF	236.9K hrs min. MIL-HDBK-217F (25°C)
Dimension (WxHxD)	22.5mm x 90mm x 100mm
Packing	0.19Kg; 72pcs/14.7Kg/0.91CUFT
NOTE	
<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The 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 EMC directives. 5. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 	