



乐清市乐宇自动化电气有限公司

Yueqing Leyu Electric Automation Co., Ltd.

40W Single Output Industrial DIN Rail Power Supply MDR-40 series

Features:

Universal AC input/ full range

Protections: Short circuit/ Over load/ Over voltage

Cooling by free air convection

Can be installed on DIN rail TS-35/7.5 or 15

LED indicator for power on

100% full load burn-in test

2 years warranty

SPECIFICATIONS				
OUTPUT				
Model	MDR-40-5	MDR-40-12	MDR-40-24	MDR-40-48
DC Voltage	5V	12V	24V	48V
Rated Current	6A	3.33A	1.7A	0.83A
Current Range	0-6A	0-3.33A	0-1.7A	0-0.83A
Rated Power	30W	40W	40.8W	39.8W
Ripple & Noise	80mVp-p	120mVp-p	150mVp-p	200mVp-p
Voltage Tolerance	±2%	±1%	±1%	±1%
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 500ms,30ms/115VAC at full load			
Hold Up Time	50ms/230VAC 25ms/115VAC at full load			
INPUT				
Voltage Range	85~264VAC 47~63Hz; 120~370VDC			
AC Current	1.1A/115VAC 0.7A/ 230VAC			
Efficiency	78%	86%	88%	88%
Inrush Current	Cold start 30A/115VAC 60A/230VAC			
Leakage Current	<1mA/240VAC			
PROTECTION				
Over Load	105% ~ 150% rated output power			
	Protection type: Constant current limiting, recovers automatically after fault condition is removed			
Over Voltage	6.27-7.25V	15.6-18V	31.2-36V	57.6-64.8V
	Protection type: Shut down o/p voltage, re-power on to recover			
ENVIRONMENT				



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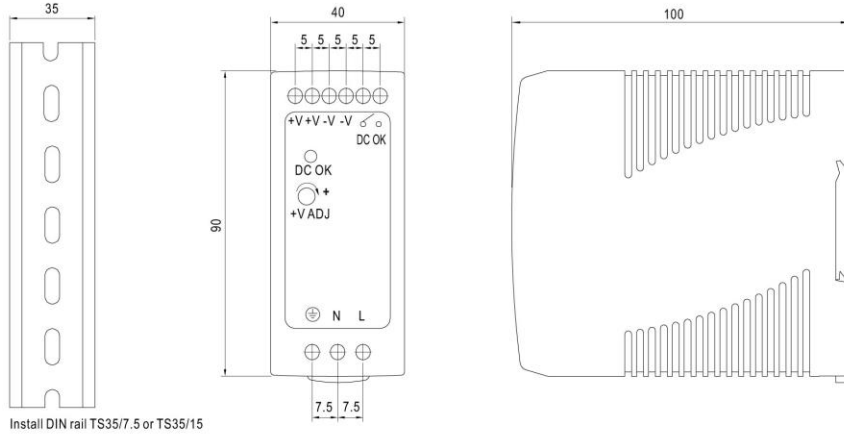
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Working Temp., Humidity	-20°C~+70°C; 20%~90% RH non-condensing
Storage Temp., Humidity	-40°C~+85°C; 10%~95%RH
Temp. Coefficient	±0.03%/°C(0~50°C)
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes
SAFETY	
Withstand Voltage	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-F/G: >100M Ohms / 500VDC/25°C/70% RH
STANDARD	
Safety Standard	Design refer to UL508,TUV EN60950-1
EMC Standard	Design refer to EN55011,EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11,EN55024, EN61000-6-1, EN61204-3, heavy industry level, criteria A
OTHERS	
Dimension	40*90*100mm(W*H*D)
Weight	0.3Kg
Packing	42pcs/carton/13.6kg/0.82CUFT
NOTE	
<p>1.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2.Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.</p> <p>3.Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>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.</p>	

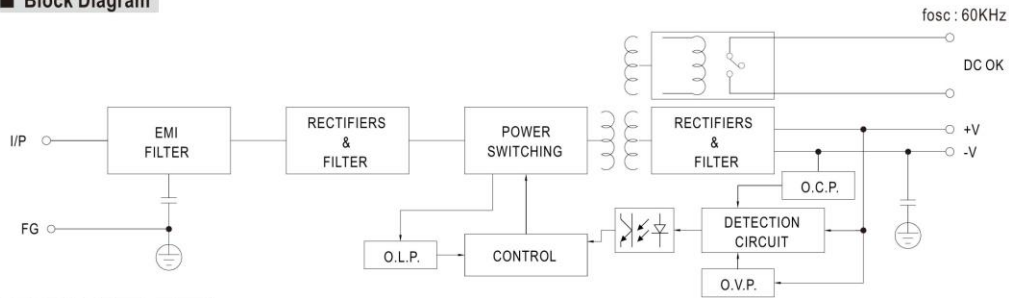
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MDR-40 series

■ Mechanical Specification



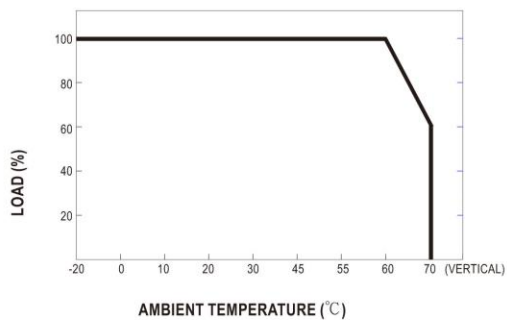
■ Block Diagram



■ DC OK Relay Contact

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

■ Derating Curve



■ Output Derating VS Input Voltage

