



Features :

- 180-600VAC ultra-wide input voltage range
- 3000 Vac isolation voltage
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Input undervoltage protection
- Guide rail type installation
- High reliability and long life
- Three-prevention technology inside the power supply
- Support DC OK function

Application :

- Photovoltaic power generation
- New Energy, energy storage equipment power supply

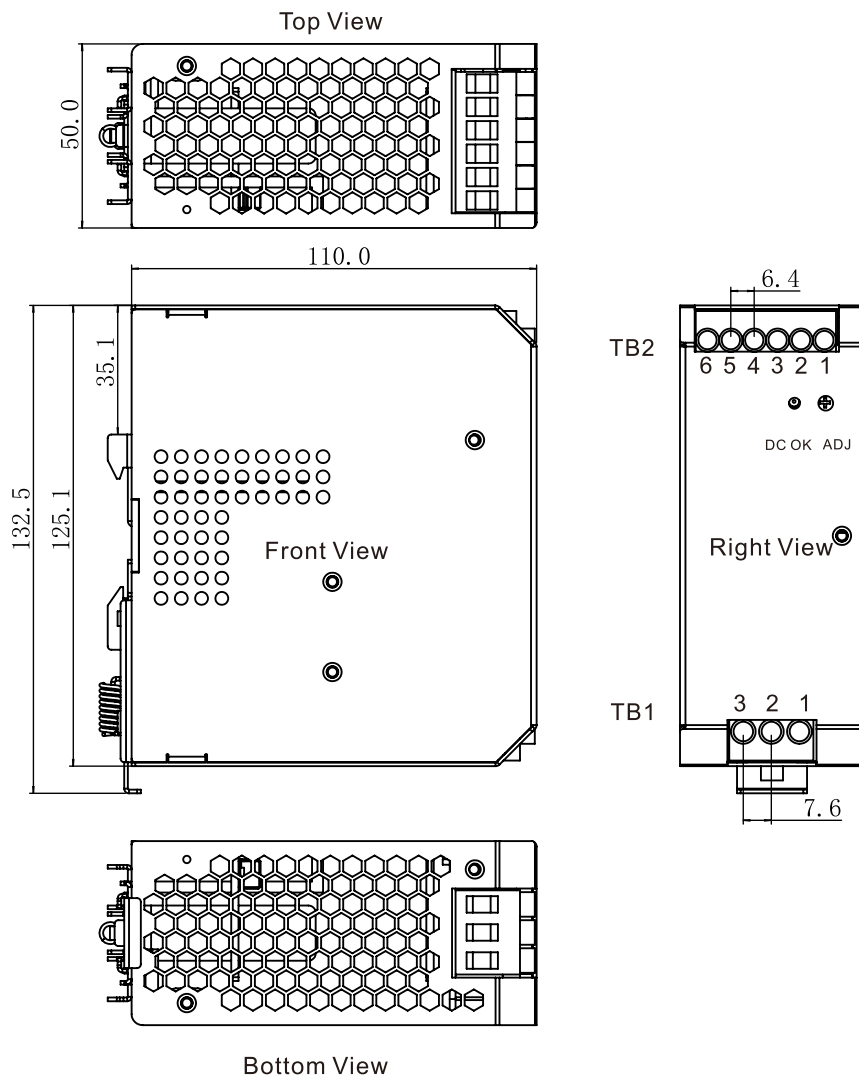
Specification

MODEL		MHDR-150-12	MHDR-150-24	MHDR-150-36	MHDR-150-48	
INPUT	VOLTAGE RANGE	180~600VAC or 250~850VDC (Refer to 'derating curve')				
	EFFICIENCY(Typ.)	88%/ @600VDC		89%/ @600VDC		
	AC CURRENT(Typ.)	0.7A/@400VAC				
	LEAKAGE CURRENT	60A/400VAC				
OUTPUT	DC VOLTAGE	12V	24V	36V	48V	
	VOLTAGE ADJ.RANGE	11.4-14V	23-27V	34-40V	46-52V	
	CURRENT RANGE	0-10A	0-5A	0-3.33A	0-2.5A	
	RATED POWER	120W	120W	120W	120W	
	RIPPLE&NOISE(max.)	200mVp-p		300mVp-p		
	VOLTAGE TOLERANCE	±2.0%				
	LINE REGULATION	±1%				
	LOAD REGULATION	±2.0%				
	SETUP TIME (max)	3S				
	CAPACITIVE LOAD (min)	1500uF				
PROTECTION	OVER LOAD	> 110%rated output power/Self-recovery				
	SHORT CIRCUIT	Self-recovery from failure resolution				
	OVER VOLTAGE	120%~150% rated output voltage/resume after restart				
ENVIRONMENT	WORKING TEMP,HUMIDITY	-30~+70°C (Refer to 'derating curve') , 20~90%RH non-condensing				
	STORAGE TEMP,HUMIDITY	-40~+80°C, 10~95%RH				
	OPERATING ALTITUDE	≤3000m				
	Heat dissipation mode	Cooling by free air convection				
Safety and electromagnetic compatibility	Safety standards	EN62109-1				
	Withstand voltage	I/P-OP:3.0KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100MΩ/500Vdc/25°C/70%RH				
	Electromagnetic compatibility emission	Parameter	Standard		Test Level / Note	
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1EAC TP TC 020,MSIP KN32		Class A	
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1EAC TP TC 020,MSIP KN32		Class A	
		Harmonic current	BS EN/EN61000-3-2,GB9254		----	
		Voltage flicker	BS EN/EN61000-3-3		----	
	Electromagnetic compatibility immunity	BS EN/EN55035				
		Parameter	Standard		Test Level /Note	
		ESD	BS EN/EN61000-4-2		Level 4, 8KV /15KV	
		RF field susceptibility	BS EN/EN61000-4-3		Level 4	
		EFT bursts	BS EN/EN61000-4-4		Level 3, 2KV	
Surge susceptibility		BS EN/EN61000-4-5		Level 3, 1KV		
Conducted susceptibility		BS EN/EN61000-4-6		Level 4		
Magnetic field immunity		BS EN/EN61000-4-8		Level 4		
Voltage dips , interruption	BS EN/EN61000-4-11					

OTHERS	DIMENSION	50*125.1*110mm(W*H*D)
	WARRANTY	24 Months
	Mean Time to failure	>300,000h
NOTE	<p>1.All parameters NOT specially mentioned are measured at 400Vac 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 0.1uF & 47uF parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation ,voltage must be measured from the output terminal.</p> <p>5. Installation Gap: the recommended installation, 40mm, 20mm, about 5mm gap. A gap of 15mm is recommended when the adjacent equipment is a heat source.</p>	

Mechanical specification:

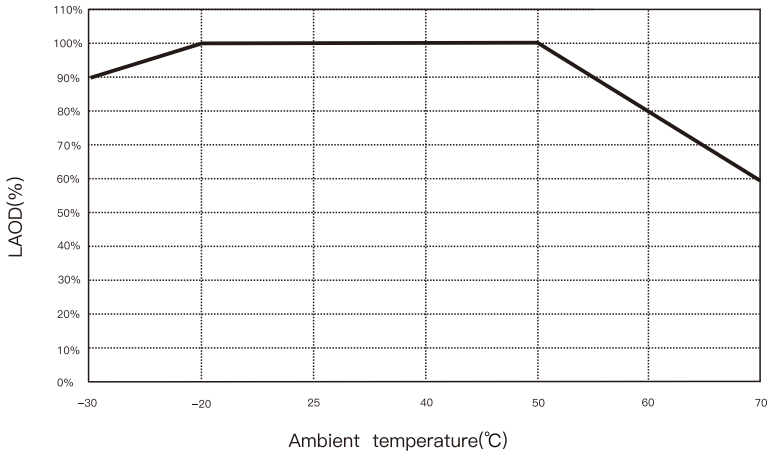
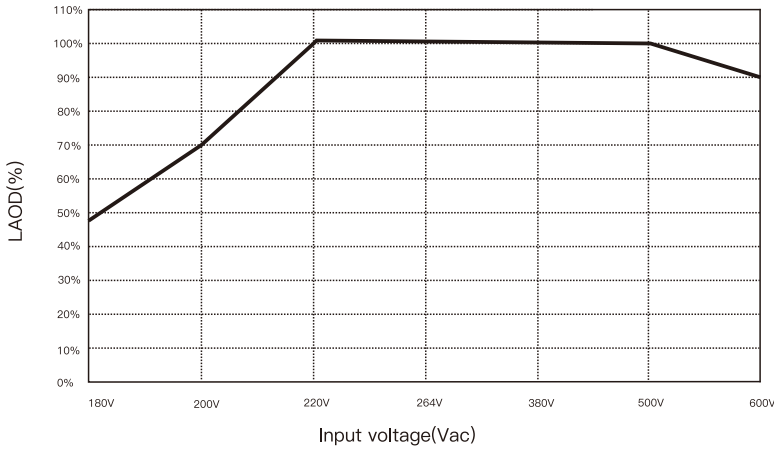
Unit: mm



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
Terminal Pin No. Assignment

TB1		TB2	
Pin No.	Assignment	Pin No.	Assignment
1	FG	1,2	DC OK RELAY
2	AC/N	3,4	DC output -V
3	AC/L	5,6	DC output +V

Derating curve:



NOTE: 1. In a short time (within 20 seconds) appear below 200 Vac or higher than 500 Vac voltage, no reduction in use.
 2. The temperature drop must be combined with the voltage drop.