Zhejiang Ximeng Electronic Technology Co., Ltd.

150W Din Rail Power Supply HDR-150



Size:105*90*58.4mm(W*H*D)

Features:

Ultra-thin width: 105mm (6SU)
Universal input: 85–264VAC worldwide
No minimum load requirement
Adjustable DC output voltage (±10%)
Natural convection cooling (operating temperature: -20°C to +70°C)
Mounting rails: TS-35/7.5 or 15mm
Protection types: Short circuit/overload/overvoltage
LED indicator for power-on status
3-year warranty

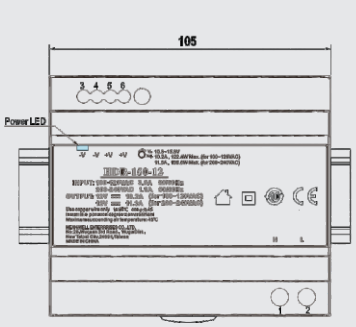
SPECIFICATION

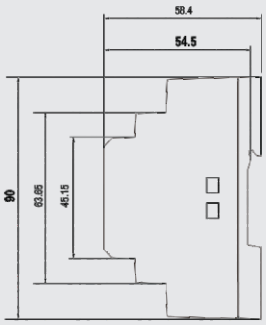
Category	Model	HDR-150-12	HDR-150-15	HDR-150-24	HDR-150-48
Output	DC Voltage	12V	15V	24V	48V
	Rated Current (115V)	10.2A	8.55A	5.31A	2.72A
	Rated Current (230V)	11.3A	9.5A	6.25A	3.2A
	Rated Power(115V)	122.4W	128.3W	127.4W	130.6W
	Rated Power(230V)	135.6W	142.5W	150W	153.6W
	Ripple & Noise	100mVp-p	120mVp-p	150mVp-p	200mVp-p
	Voltage Range	10.8–13.8V	13.5–18V	21.6–29V	43.2–55.2V
	Voltage Accuracy	±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%
	Start-Up Time	500ms/60ms (230VAC/115VAC)			
	Hold-Up Time (Typ.)	30ms/12ms (230VAC/115VAC)			
Input	Voltage Range	85–264VAC	85–264VAC	85–264VAC	85–264VAC
	Frequency Range	47–63Hz	47–63Hz	47–63Hz	47–63Hz
	Efficiency (Typ.)	87%	87%	88%	88%
	AC Current (Typ.)	3A/115VAC	3A/115VAC	1.6A/230VAC	3A/115VAC
	Inrush Current (Typ.)	Cold start 35A/115VAC	35A/115VAC	70A/230VAC	35A/115VAC
Protection	Overload Protection	105–135% of rated power			
		Output voltage <50% Hiccup Mode，=50% Constant Current Mode, Automatically resumes operation after load anomaly is removed.			
	Overvoltage Protection	14.2–16.2V	30–36V	56.5–64.8V	56.5–64.8V
		Shut down the output. Operation automatically resumes after the power supply is restarted.			
Environment	Operating Temperature	-20°C to +70°C			
	Storage Temperature/Humidity	-40°C to +85°C, 10%–95% RH (non-condensing)			
	Temperature Coefficient	±0.03%/°C (0–50°C)			
	Vibration Resistance	10–500Hz, 2G 10min/cycle (X/Y/Z axes, 60min total)			
	Altitude	2000 meters			
Safety & EMC	Safety Standards	Complies with CE and GB4943.1 safety standards			
	Dielectric Strength	Input-Output: 3kVAC			
	Insulation Resistance	>100MO/500VDC/25°C/70% RH			
	EMI Emission	Complies with EN55032 (CISPR32) Class B, EN61000-3-3			
	EMC Immunity	Complies with EN 61000-4-2, 3, 4, 5, 6, 8			
Others	MTBF	=907,000 hours (MIL-HDBK-217F, 25°C)			
	Dimensions	90 × 58.4 × 105mm (H × D × W)			
	Packaging Weight	0.31kg/unit			
Notes	1.All specifications are measured under 230VAC input, rated load, and 25°C ambient temperature unless otherwise specified. 2.Ripple/noise measurement method: 12" twisted pair with 0.1μF + 47μF parallel capacitors, 20MHz bandwidth. 3.Accuracy includes setting error, line regulation, and load regulation. 4.Derating required under low input voltage; refer to derating curve. 5.EMC compliance must be verified in end-device integration. 6.For altitudes >2000m (6500ft):Non-fan models: Reduce operating temperature by 3.5°C per 1000m.Fan models: Reduce operating temperature by 5°C per 1000m.				

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Mechanical Specification

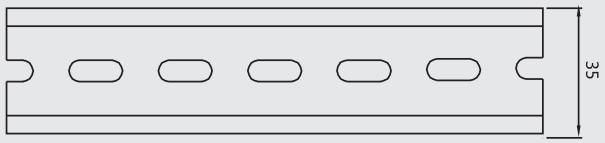
measurement unit : mm





Terminal Pin No. Assignment

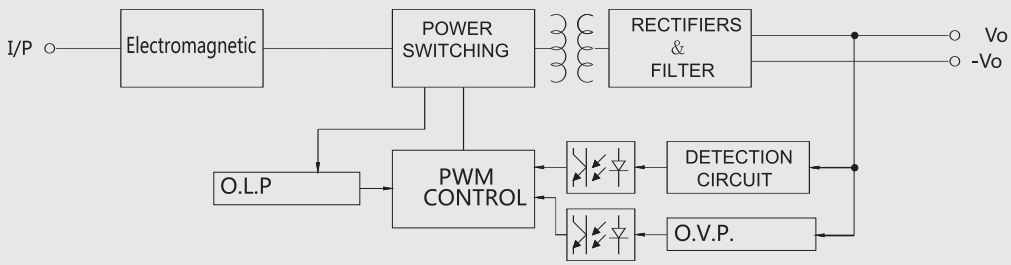
Pin No.	Assignment
1	DC Vo
2	DC -Vo
3	AC Input N
4	AC Input L



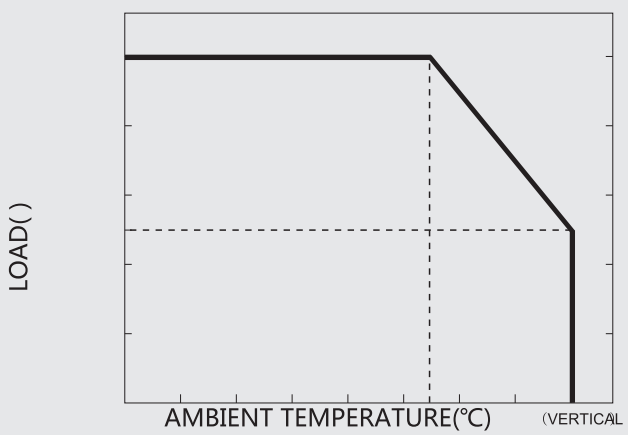
TS35/7.5 TS35/15

Block Diagram

fosc : 100KHz



Derating Curve



Static Characteristics

