































Features

- · Ultra slim design with 105mm(6SU) width
- · Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${\mathbb I}$
- · DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection
- DIN rail TS-35/7.5 or 15 mountable
- Over voltage category III
- · LED indicator for power on
- 3 years warranty

Applications

- · Household control system
- Building automation
- · Industrial control system
- Factory automation
- · Electro-mechanical apparatus

GTIN CODE

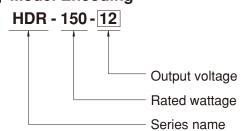
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

HDR-150 is an economical ultra slim 150W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 105mm(6SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC(277VAC operational) and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current.

HDR-150 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 90.5%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC62368-1, UL62368-1, UL61010, BS EN/EN61558-2-16) make HDR-150 a very competitive power supply solution for household and industrial applications.

Model Encoding



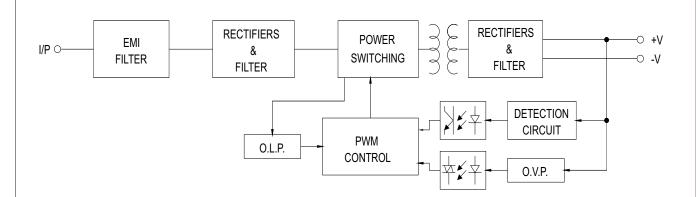


SPECIFICATION

MODEL			HDR-150-12	HDR-150-15	HDR-150-2	4	HDR-150-48	
	DC VOLTAGE		12V	15V	24V		48V	
	115VAC		10.2A	8.55A	5.31A		2.72A	
	RATED CURRENT	230VAC	<u> </u>	9.5A	6.25A		3.2A	
		115VAC		128.3W	127.4W		130.6W	
	RATED POWER				150W			
	DIDDLE 9 NOISE /ma	230VAC	135.6W	142.5W			153.6W	
OUTPUT	RIPPLE & NOISE (max.) Note.2			120mVp-p	150mVp-p		200mVp-p	
	VOLTAGE ADJ. RANGE		10.8~ 13.8V ±2.0%	13.5 ~ 18V	21.6 ~ 29V		43.2 ~ 55.2V	
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	±1.0% ±1.0%		±1.0% ±1.0%	
	LINE REGULATION			±1.0%	11070		***	
	LOAD REGULATION		±1.0%	±1.0%	±1.0%	±1.0% ±1.0%		
	SETUP, RISE TIME		500ms, 60ms/230VAC 500ms, 60ms/115VAC at full load					
	HOLD UP TIME (Typ.)		30ms/230VAC 12ms/115VAC at full load					
INPUT	VOLTAGE RANGE		85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)					
	FREQUENCY RANGE		47 ~ 63Hz				1	
	EFFICIENCY (Typ.)		89%	89.5%	90.5%		90.5%	
	AC CURRENT (Typ.)		3A/115VAC 1.6A/230V/					
	INRUSH CURRENT (Typ.)		COLD START 35A/115VAC 70A/230VAC					
PROTECTION	OVERLOAD		105 ~ 135% rated output power					
			Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed Constant current limiting within 50% ~100% rated output voltage, recovers automatically after fault condition is removed					
	OVER VOLTAGE		14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V		56.5 ~ 64.8V	
			Protection type: Shut down o/p voltage, re-power on to recover					
	WORKING TEMP.		-30 ~ +70°C (Refer to "Derating Curve")					
	WORKING TEMP. WORKING HUMIDITY		20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing					
ENVIRONMENT	TEMP. COEFFICIENT		$\pm 0.03\%$ °C (0 ~ 45°C) RH non-condensing					
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6					
	-							
	OPERATING ALTITUDE OVER VOLTAGE CATEGORY		2000 meters (Note 4) III ; According to EN62368,EN61558, EN50178,EN60664-1, EN62477-1; altitude up to 2000 meters					
	SAFETY STANDARDS		III ; According to EN62368,EN61558, EN50178,EN60664-1, EN62477-1 ; altitude up to 2000 meters IEC62368-1, UL62368-1, UL61010, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, EAC TP TC 004,BIS IS13252(Part1): 2010/IEC 609501:2005(except for 48) approved; Design refer to BS EN/EN50178, TUV BS EN/EN62368-1					
	WITHSTAND VOLTAGE		VP-0/P:4KVAC					
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
	IOOLATION REGIONARDE		Parameter	Standard		Test Level / No	to .	
			Conducted	BS EN/EN55032(C	יוכסספוי	Class B	10	
	EMC EMISSION			,	,		Ε/	
			Radiated	BS EN/EN55032(C		Class B (note	0)	
SAFETY &			Harmonic Current (Note 6)	BS EN/EN61000-3		Class A		
EMC			Voltage Flicker	BS EN/EN61000-3	3-3			
(Note.7)	EMC IMMUNITY		BS EN/EN55024, BS EN/EN			T=		
			Parameter	Standard		Test Level /No	· • •	
			ESD	BS EN/EN61000-4		Level 3, 8KV a	ir; Level 2, 4KV contact, criteria	
			Radiated Susceptibility	BS EN/EN61000-4		Level 3, criteri		
			EFT/Burest	BS EN/EN61000-4	BS EN/EN61000-4-4 Level 3, o		a A	
			Surge	BS EN/EN61000-4	BS EN/EN61000-4-5 Level 4,2K		-N, criteria A	
			Conducted	BS EN/EN61000-4	-6 Level 3, criteria A		a A	
			Magnetic Field	BS EN/EN61000-4	l-8	Level 4, criteri	аА	
			Voltage Dips and interruption	BS EN/EN61000-4	I-11	>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	MTBF		3046.3K hrs min. Telcordia SR-332 (Bellcore) ; 535.9K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION		105*90*54.5mm (W*H*D)					
	PACKING		0.31Kg; 32pcs/11Kg/1.0CUFT					
NOTE	Ripple & noise are Tolerance : includes The ambient tempe When the input volt radiated emission fe Harmonic current te The power supply is	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µ F & 47 µ F parallel capacitor. Foliar includes set up tolerance, line regulation and load regulation. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). When the input voltage is 230VAC, delivers EMI Class B for radiated emission for the power supply; When the input voltage is 110VAC, delivers EMI Class A for adiated emission for the power supply. **Larmonic current test at 70% load .** The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC irectives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." **sa vailable on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf*) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						

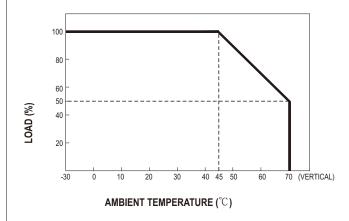


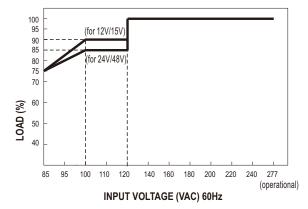
■ Block Diagram



■ Derating Curve VS Ambient Temperature

■ Output Derating VS Input Voltage

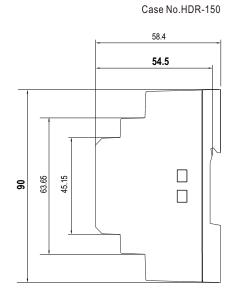






■ Mechanical Specification

(Unit: mm , tolerance ± 0.5mm)



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ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/N	3,4	-V
2	AC/L	5,6	+V

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html