

HDR-150 series







Features

- Ultra slim design with 105mm(6SU) width
- · Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class $\, {\rm I\hspace{-.1em}I}$
- · 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 ${\rm I\!I}$
- · 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: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

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			HDR-150-12	HDR-150-15	HDR-150-2	24	HDR-150-48	
-	DC VOLTAGE		12V	15V	24V		48V	
OUTPUT	115VAC		10.2A	8.55A	5.31A		2.72A	
	RATED CURRENT	230VAC		9.5A	6.25A		3.2A	
		115VAC		128.3W	127.4W		130.6W	
	RATED POWER	230VAC		142.5W	150W		153.6W	
	RIPPLE & NOISE (ma		100mVp-p	120mVp-p	150mVp-p		200mVp-p	
	VOLTAGE ADJ. RANGE		10.8~ 13.8V	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%		±1.0%	
	LOAD REGULATION		±1.0%	±1.0%	±1.0%		±1.0%	
	SETUP, RISE TIME		500ms, 60ms/230VAC	500ms, 60ms/115VAC at fu				
	HOLD UP TIME (Typ.)		30ms/230VAC 12ms/115VAC at full load					
	VOLTAGE RANGE		85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)					
	FREQUENCY RANGE		$47 \sim 63$ Hz					
				00.5%	00 50/		00.5%	
	EFFICIENCY (Typ.)		89%	89.5%	90.5%		90.5%	
	AC CURRENT (Typ.)		3A/115VAC 1.6A/230					
	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					
	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 56.5 ~ 64.8V 56.5 ~ 64.8V					
	WORKING TEMP.		$-30 \sim +70^{\circ}C$ (Refer to "Derating Curve")					
	WORKING TEMP.		20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing					
ENVIRONMENT	TEMP. COEFFICIENT		$\pm 0.03\%^{\circ}$ 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		2000 meters (Note 4.)					
	OVER VOLTAGE CATEGORY		III ; According to EN62368,EN61558, EN50178,EN60664-1, EN62477-1 ; altitude up to 2000 meters					
	SAFETY STANDARDS		IEC62368-1, UL62368-1, UL61010, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, EAC TP TC 004 approved; Design refer to BS EN/EN50178, TUV BS EN/EN62368-1					
	WITHSTAND VOLTAGE		I/P-O/P:4KVAC					
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
			Parameter	Standard	Standard Test Level / Note		ote	
	EMC EMISSION		Conducted	BS EN/EN55032	BS EN/EN55032(CISPR32) Class B			
			Radiated	BS EN/EN55032	BS EN/EN55032(CISPR32) Class B (r		note 5)	
			Harmonic Current (Note 6	BS EN/EN61000	BS EN/EN61000-3-2 Class A		,	
SAFETY &			Voltage Flicker		BS EN/EN61000-3-3			
EMC			Ŭ	BS EN/EN55024, BS EN/EN61000-6-2				
(Note.7)	EMC IMMUNITY		Parameter	Standard			Test Level /Note	
			ESD	BS EN/EN61000	BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria	
			Radiated Susceptibility		BS EN/EN61000-4-3		Level 3, criteria A	
			EFT/Burest		BS EN/EN61000-4-4		Level 3, criteria A	
			Surge		BS EN/EN61000-4-5		Level 4.2KV/L-N. criteria A	
			Conducted		BS EN/EN61000-4-6		Level 3, criteria A	
			Magnetic Field				evel 4, criteria A	
			Voltage Dips and interrupt		EN/EN61000-4-11 >95% dip 0		5 periods, 30% dip 25 periods, ptions 250 periods	
OTHERS	MTBF		3046.3K hrs min. Telcordia SR-332 (Bellcore) ; 535.9K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION		105*90*54.5mm (W*H*D)					
	PACKING		0.31Kg; 32pcs/11Kg/1.0CUFT					
NOTE	 Ripple & noise are i Tolerance : includes The ambient tempe When the input volt radiated emission fc Harmonic current te The power supply is directives. For guida (as available on http 	ters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. hoise 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. : includes set up tolerance, line regulation and load regulation. ent 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). 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 mission for the power supply. current test at 70% load. r supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." le on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) iability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						



150W Ultra Slim Step Shape DIN Rail

HDR-150 series





HDR-150 series

Case No.HDR-150

45.15

58.4 54.5

Mechanical Specification



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