

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 ${\mathbb I}$
- 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

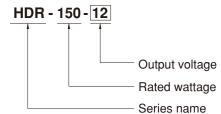
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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



File Name: HDR-150-SPEC 2022-03-18





HDR-150 series

SPECIFICATION

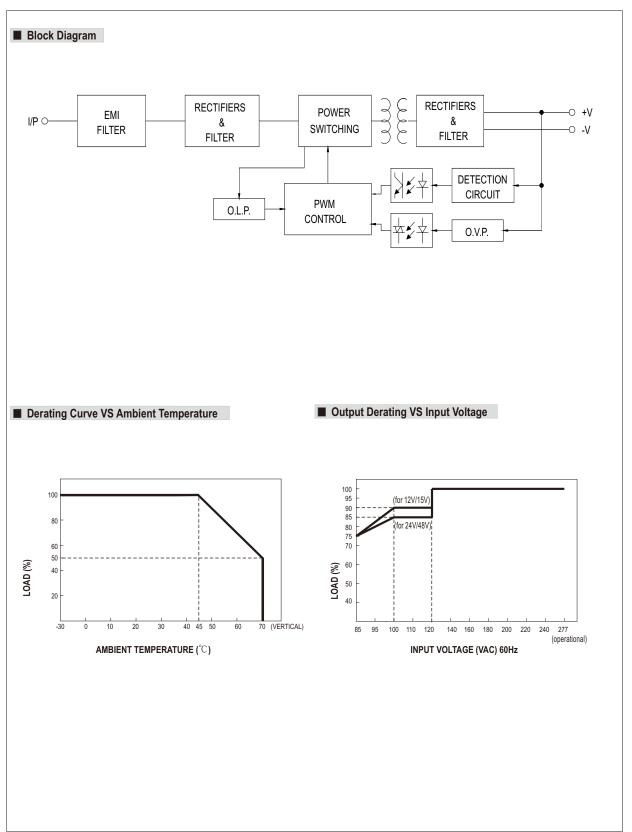
MODEL			HDR-150-12	HDR-150-15	HDR-150-24		HDR-150-48	
	DC VOLTAGE		12V	15V	24V		48V	
OUTPUT	115VAC		10.2A	8.55A	5.31A		2.72A	
	RATED CURRENT	230VAC	-	9.5A	6.25A		3.2A	
		115VAC			127.4W			
	RATED POWER			128.3W			130.6W	
	DIDDLE A NOISE /	230VAC		142.5W	150W		153.6W	
	RIPPLE & NOISE (max.) Note.2			120mVp-p	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%	
	LINE REGULATION		±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 full load					
	HOLD UP TIME (Typ.)		30ms/230VAC 12ms/115VAC at full load					
	VOLTAGE RANGE		85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)					
	FREQUENCY RANGE		47 ~ 63Hz					
INPUT	EFFICIENCY (Typ.)		89%	89.5%	90.5%		90.5%	
	AC CURRENT (Typ.)		3A/115VAC 1.6A/230VA					
	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					
			14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V		56.5 ~ 64.8V	
	OVER VOLTAGE		14.2 ~ 16.2 v 10.0 ~ 22.3 v 50.3 ~ 64.6 v 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		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		Test Level / No	ote	
	EMC EMISSION		Conducted	BS EN/EN55032(C	BS EN/EN55032(CISPR32)		Class B	
			Radiated	BS EN/EN55032(C	,	Class B (note 5)		
			Harmonic Current (Note 6)	BS EN/EN61000-3-		Class A		
SAFETY &			Voltage Flicker	BS EN/EN61000-3-				
EMC			BS EN/EN61000-6-2					
(Note.7)			Parameter	Standard			Test Level /Note	
	EMC IMMUNITY		ESD		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			Level 4.2KV/L-N, criteria A		
			Conducted		BS EN/EN61000-4-5		Level 3, criteria A	
			Magnetic Field					
			Voltage Dips and interruption		BS FN/FN61000-4-11 >95% dip		5 periods, 30% dip 25 periods, uptions 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	All parameters NOT Ripple & noise are Tolerance : includes The ambient tempe When the input volt radiated emission for Harmonic current te The power supply id directives. For guida (as available on http.)	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. udes set up tolerance, line regulation and load regulation. mperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 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 on for the power supply.						

File Name:HDR-150-SPEC 2022-03-18





HDR-150 series



File Name:HDR-150-SPEC 2022-03-18

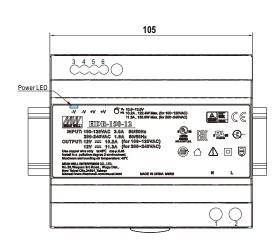


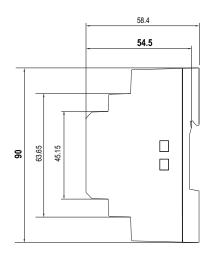


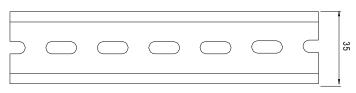
HDR-150 series

■ Mechanical Specification

(Unit: mm , tolerance ± 0.5mm)







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

File Name:HDR-150-SPEC 2022-03-18





We are here for you. Addresses and Contacts.

Headquarter Switzerland:

Angst+Pfister Sensors and Power AG
Thurgauerstrasse 66
CH-8050 Zurich
Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH Edisonstraße 16 D-85716 Unterschleißheim Phone +49 89 374 288 87 00 sensorsandpower.de@angst-pfister.com

Scan here and get an overview of personal contacts!



sensorsandpower.angst-pfister.com