

HDR-100 series



























Features

- Ultra slim design with 70mm(4SU) width
- · Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${\mathbb I}$
- · Pass LPS (Limited power source) for Blank type
- DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)
- 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

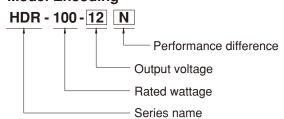
GTIN CODE

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

Description

HDR-100 is one economical ultra slim 100W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 70mm(4SU) 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-100 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 90%, 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, UL508, UL62368-1, BS EN/EN61558-2-16) make HDR-100 a very competitive power supply solution for household and industrial applications.

Model Encoding



Туре	Description	Note
Blank	92W max, Pass LPS with a narrower output adjustable range	In stock
N	100W max, Non-LPS with a wider output adjustable range	In stock





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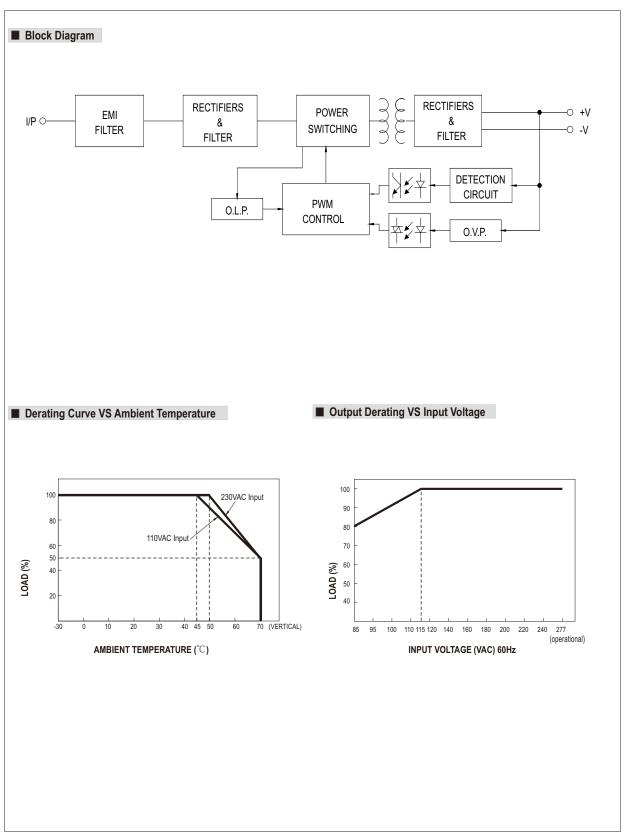
SPECIFICATION

MODEL			HDR-100-12	HDR-100-12N	HDR-100-15	HDR-100-15N	HDR-100-24	HDR-100-24N	HDR-100-48	HDR-100-48I	
	DC VOLTAGE		12V		15V		24V		48V		
ОИТРИТ	RATED CURRENT		7.1A	7.5A	6.13A	6.5A	3.83A	4.2A	1.92A	2.1A	
	CURRENT RAN		0 ~ 7.1A	0 ~ 7.5A	0 ~ 6.13A	0 ~ 6.5A	0 ~ 3.83A	0 ~ 4.2A	0 ~1.92A	0 ~ 2.1A	
	RATED POWER		85.2W	90W	92W	97.5W	92W	100.8W	92.2W	100.8W	
	RIPPLE & NOISE (max.) Note.2					1001011	240mVp-p				
	VOLTAGE ADJ. Pass LPS		12 ~ 13V				24 ~ 25.5V		48 ~ 48.7V		
	RANGE	Non LPS	12~ 13.8V				21.6 ~ 29V		43.2 ~ 55.2V		
	VOLTAGE TOLERANCE Note.3		±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%		
	SETUP, RISE TIME		500ms, 60ms/230VAC 500ms, 60ms/115VAC at full load								
	HOLD UP TIME (Typ.)		30ms/230VAC 12ms/115VAC at full load								
	VOLTAGE RANG	,	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)								
INPUT	FREQUENCY RANGE		47 ~ 63Hz								
	EFFICIENCY (Typ.)		88% 89% 90%				90%				
	AC CURRENT (Typ.)		88% 89% 90% 90% 90% 3A/115VAC 1.6A/230VAC								
	INRUSH CURRE	. ,	COLD START 35A/115VAC 70A/230VAC								
PROTECTION	INTOOTI CORREINT (Typ.)		HDR-100: 102 ~ 110% rated output power; HDR-100-xxN: 105 ~ 150% rated output power								
	OVERLOAD		Hick-100: 102 ~ 110% rated output power; HDR-100-xxiv: 105 ~ 150% rated output power Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed								
					,		•			is removed	
			Constant current limiting within $50\% \sim 100\%$ rated output voltage, recovers automatically after fault condition is removed $14.2 \sim 16.2 \text{V}$ $18.8 \sim 22.5 \text{V}$ $30 \sim 36 \text{V}$ $56.5 \sim 64.8 \text{V}$								
	OVER VOLTAGE	Ē	Protection type	: Shut down o/p v	oltage, re-power	on to recover					
	WORKING TEMP.		-30 ~ +70°C (R	efer to "Derating (Curve")						
	WORKING HUM	IDITY	20 ~ 90% RH non-condensing								
	STORAGE TEM	P., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
ENVIRONMENT	TEMP. COEFFIC	IENT	$\pm 0.03\%$ °C (0 ~ 50°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 A	ALTITUDE	2000 meters								
	OVER VOLTAGE			g to EN61558,	EN50178,EN6	0664-1, EN624	77-1 ; altitude	up to 2000 met	ers		
	SAFETY STAND	ARDS	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS14336-1								
			approved; Design refer to TUV BS EN/EN62368-1								
	WITHSTAND VO	LTAGE	I/P-O/P:4KVAC								
	ISOLATION RES	SISTANCE	I/P-O/P:100M C	Ohms / 500VDC / 2	25°C / 70% RH						
	EMC EMISSION EMC IMMUNITY		Parameter		Standard Test Level / No		te				
			Conducted		BS EN/EN5	5032(CISPR32),	CNS13438	Class B			
			Radiated		BS EN/EN5	5032(CISPR32),	CNS13438	Class B			
SAFETY &			Harmonic Curr	ent (Note 5)	BS EN/EN6	1000-3-2		Class A			
			Voltage Flicker		BS EN/EN6	1000-3-3					
EMC			BS EN/EN5502	24, BS EN/EN610	00-6-2, BS EN/E	EN61204-3					
(Note 5)			Parameter		Standard			Test Level /Note			
			ESD		BS EN/EN6	1000-4-2		Level 3, 8KV air; Level 2, 4KV contact, crite		ontact, criteria	
			Radiated Susce	eptibility	BS EN/EN6	1000-4-3		Level 3, criteria A			
			EFT/Burest		BS EN/EN6			Level 3, criteria A			
			Surge		BS EN/EN6			Level 4.2KV/L-N. criteria A			
			Conducted		BS EN/EN6			Level 3, criteria A			
			Magnetic Field		BS EN/EN6			Level 4, criteria A			
								>95% dip 0. 5 periods, 30% dip 25 periods,			
			Voltage Dips ar	nd interruptions	BS EN/EN6	1000-4-11		>95% interruptions 250 periods			
	MTBF		3271.9K hrs	min. Telcord	a SR-332 (Bellcore) ; 856.5K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION		70*90*54.5mm (W*H*D)								
	PACKING		0.27Kg; 48pcs/14Kg/1.06CUFT								
NOTE	 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 0.1μf & 47μf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Harmonic current test at 90% load for HDR-100-xxN. 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 directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 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(6500t) 										





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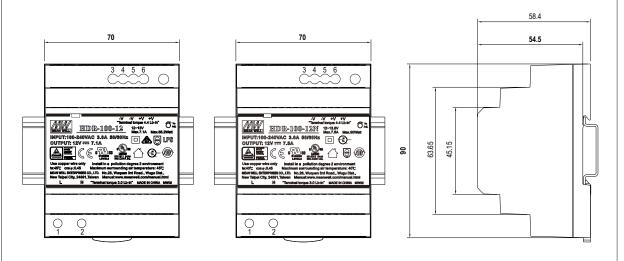


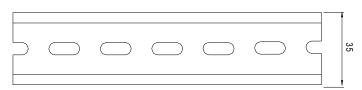


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■ Mechanical Specification

(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/L	3,4	-V
2	AC/N	5,6	+V

■ Installation Manual

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





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