































Features

- · Ultra slim design with 70mm(4SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${
 m II}$
- · 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
- · LED indicator for power on
- 3 years warranty

Applications

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

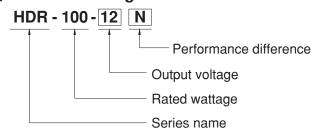
GTIN CODE

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

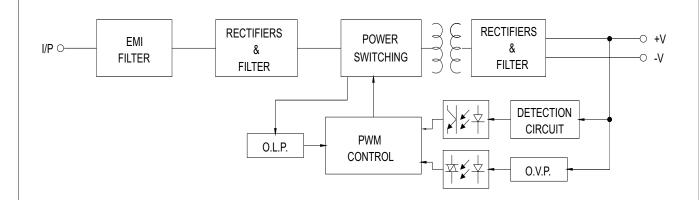


SPECIFICATION

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	1	24V	<u> </u>	48V		
ОИТРИТ	RATED CURREN	NT T	7.1A	7.5A	6.13A	6.5A	3.83A	4.2A	1.92A	2.1A	
	CURRENT RANG	GE	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		1		120mVp-p		150mVp-p		240mVp-p		
	VOLTAGE ADJ. Pass LPS RANGE Non LPS		12 ~ 13V				24 ~ 25.5V 48 ~ 48.7V				
			12~ 13.8V		13.5 ~ 18V		21.6 ~ 29V		43.2 ~ 55.2V		
	VOLTAGE TOLER	RANCE 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%	±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 RA	ANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)		88% 89% 90%		90%	90%					
	AC CURRENT (Typ.)		3A/115VAC 1.6A/230VAC								
	INRUSH CURRE	NT (Typ.)	COLD START 3	35A/115VAC	70A/230VAC						
			HDR-100 : 102	~ 110% rated out	put power ; HDR	-100-xxN : 105 ~	150% rated outp	ut power			
PROTECTION	OVERLOAD		HDR-100 : 102 ~ 110% rated output power ; HDR-100-xxN : 105 ~ 150% 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		Protection type	: Shut down o/p v	oltage, re-power	on to recover					
	WORKING TEMP.		-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUM	IDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP	P., HUMIDITY	-40 ~ +85°C, 10	0 ~ 95% RH non-co	ondensing						
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	LTITUDE	2000 meters								
	OVER VOLTAGE	E CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000 meters								
	SAFETY STAND	ARDS	UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS15598-1 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						
			Parameter		Standard			Test Level / Not	te		
		Conducted		BS EN/EN	55032(CISPR32),	2(CISPR32), CNS15936 Class B					
	EMC EMISSION		Radiated		BS EN/ENS	55032(CISPR32),	CNS15936	Class B			
			Harmonic Curr	ent (Note 5)	BS EN/EN6	31000-3-2	Class A				
SAFETY &			Voltage Flicker		BS EN/EN61000-3-3						
EMC (Note 5)			BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3								
(Note 3)		Parameter		Standard			Test Level /Note				
	EMC IMMUNITY		ESD		BS EN/EN6	BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria			
			Radiated Susce	eptibility	BS EN/EN6	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, cri		Level 3, criteria	ria A			
			Magnetic Field		BS EN/EN61000-4-8 Lev		Level 4, criteria	Level 4, criteria A			
			Voltage Dips a	nd interruptions	BS EN/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods				
OTHERS	MTBF		3271.9K hrs min. Telcordia SR-332 (Bellcore) ; 856.5K hrs min. MIL-HDBK-217F (25° C)					F (25°C)			
	DIMENSION		70*90*54.5mm (W*H*D)								
	PACKING		0.27Kg; 48pcs/13.74Kg/0.96CUFT								
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 0.1 μ F & 47 μ F 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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). Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										
		oility Disclaimer	: For detailed in	ntormation, pleas	se refer to https	://www.meanwell.	.com/serviceDis	claimer.aspx	File Name:HDR-10	0-SPEC	

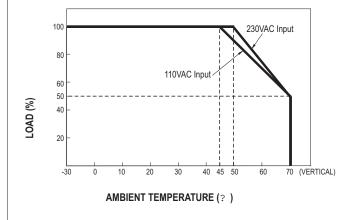


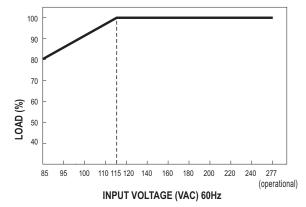
■ Block Diagram



■ Derating Curve VS Ambient Temperature

■ Output Derating VS Input Voltage



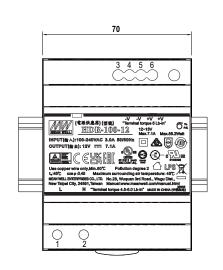


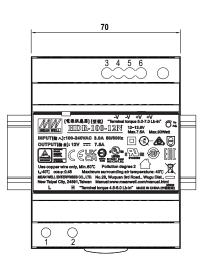


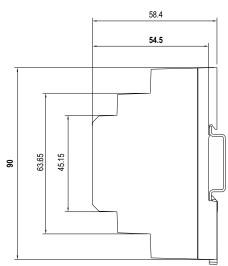
■ Mechanical Specification

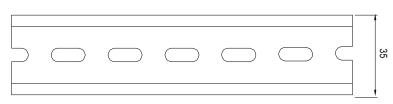
(Unit: mm , tolerance ± 0.5mm)

Case No.HDR-15









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