































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
- Over voltage category III
- · LED indicator for power on
- 3 years warranty

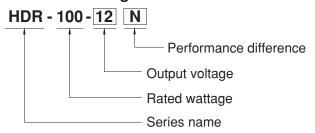
Applications

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

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 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, 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

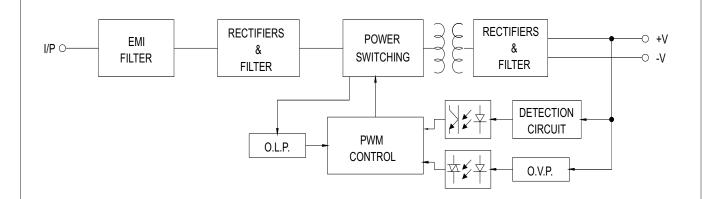


SPECIFICATION

MODEL		HDR-100-12	HDR-100-12N	HDR-100-15	HDR-100-15N	HDR-100-24	HDR-100-24N	HDR-100-48	HDR-100-48	
	DC VOLTAGE	12V		15V		24V		48V		
OUTPUT	RATED CURRENT	7.1A	7.5A	6.13A	6.5A	3.83A	4.2A	1.92A	2.1A	
	CURRENT RANGE	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				37.344					
	,	120mVp-p 12 ~ 13V				'		240mVp-p		
OUIFUI	VOLTAGE ADJ. Pass LPS RANGE Non LPS	12~ 13.8V		15 ~ 17V		24 ~ 25.5V 21.6 ~ 29V		48 ~ 48.7V		
	Non Er o	±2.0%		13.5 ~ 18V				43.2 ~ 55.2V		
	VOLTAGE TOLERANCE Note.3	±1.0%		±1.0% ±1.0%		±1.0% ±1.0%		±1.0% ±1.0%		
	LINE REGULATION	±1.0%		±1.0%		±1.0%		±1.0%		
	LOAD REGULATION					1.0 //0		⊥ 1.076		
	SETUP, RISE TIME	· · · · · · · · · · · · · · · · · · ·		ns, 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						ı		
	EFFICIENCY (Typ.)	88%		89%		90%	90%		90%	
	AC CURRENT (Typ.)	3A/115VAC	A/115VAC 1.6A/230VAC							
ı	INRUSH CURRENT (Typ.)	COLD START	35A/115VAC	70A/230VAC						
		HDR-100 : 102 ~ 110% rated output power ; HDR-100-xxN : 105 ~ 150% rated output power								
	OVERLOAD						condition is remo			
PROTECTION		Constant curre	nt limiting within		rated output vo	oltage, recovers	automatically aft	er fault condition	is removed	
	OVER VOLTAGE	14.2 ~ 16.2V		18.8 ~ 22.5V		30 ~ 36V		56.5 ~ 64.8V		
	OVER VOLIAGE	Protection type	: Shut down o/p v	oltage, re-power	on to recover					
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	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 ~ 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 ALTITUDE	2000 meters								
	OVER VOLTAGE CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000 meters								
	SAFETY STANDARDS	UL62368-1, UL	508, TUV EN615	58-2-16, IEC623	68-1, EAC TP TC	004, BSMI CNS1	4336-1 approved;	Design refer to	TUV EN62368-	
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M (Ohms / 500VDC / 2	25°C / 70% RH						
		Parameter		Standard			Test Level / Note			
		Conducted		FN55032(0	EN55032(CISPR32), CNS13438		Class B			
	EMC EMISSION	Radiated			EN55032(CISPR32), CNS13438		Class B			
		Harmonic Curr	ent (Note 5)	,	EN61000-3-2		Class A			
SAFETY &										
EMC		Voltage Flicker EN61000-3-3								
(Note 5)	EMC IMMUNITY	EN55024, EN61000-6-2, EN61204-3 Parameter Standard Test Level /Note								
		ESD			Standard ENG4000 4 2		Level 3, 8KV air; Level 2, 4KV contact, criteria			
			415 1114 .		EN61000-4-2 EN61000-4-3					
		Radiated Susce	eptibility	1 111			Level 3, criteria A			
		EFT/Burest			EN61000-4-4		Level 3, criteria A			
		Surge						L-N, criteria A		
		Conducted		EN61000-4-6		Level 3, criteria A				
		Magnetic Field		EN61000-4-8			Level 4, criteria A			
		Voltage Dips a	nd interruptions	EN61000-4-11			>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
OTHERS	MTBF	856.5K hrs min. MIL-HDBK-217F (25°C)								
	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(6500ft) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 									

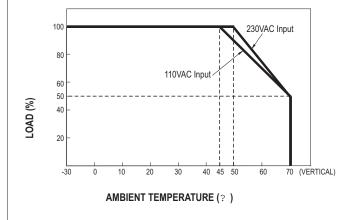


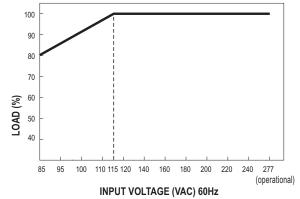
■ Block Diagram



■ Derating Curve VS Ambient Temperature

■ Output Derating VS Input Voltage

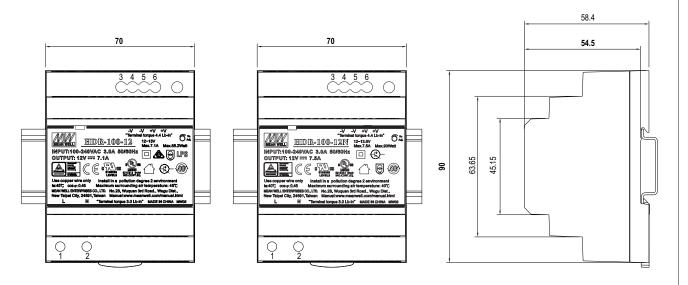


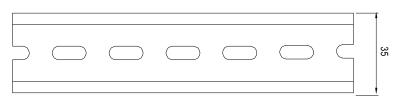




■ Mechanical Specification

(Unit: mm , tolerance ± 0.5mm)





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