

























Features

- Ultra slim design with 70mm(4SU) width
- Universal input 85~264VAC(277VAC operational)
- · No load power consumption<0.3W
- · Isolation class 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

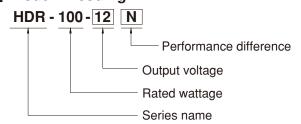
Applications

- · 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. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC60950-1, UL508, UL60950-1, EN61558-2-16) make HDR-100 a very competitive power supply solution for household and industrial applications.

Model Encoding



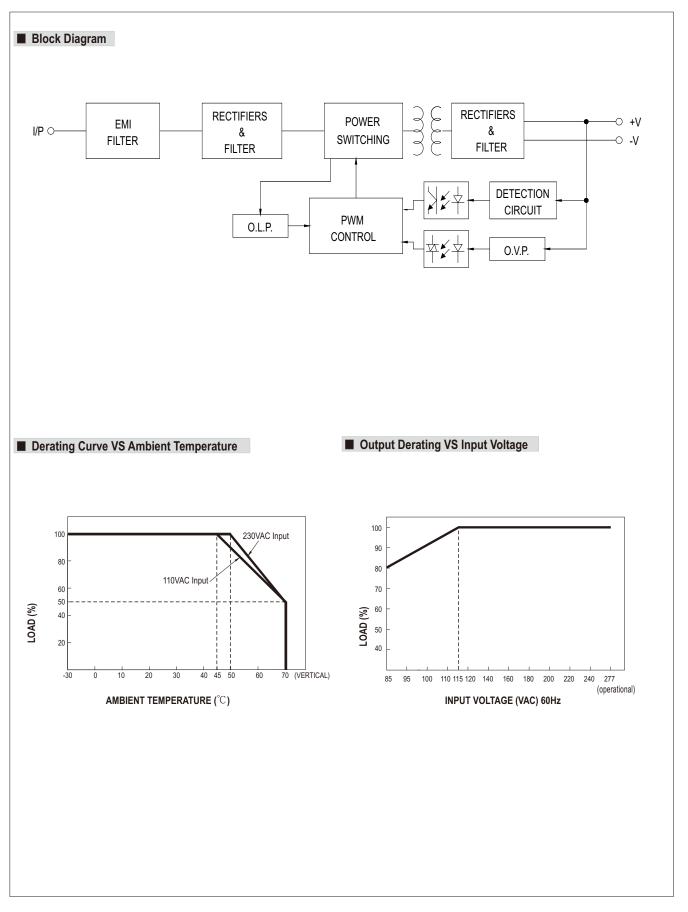
Туре	Description	Note
Blank	92W max, Pass LPS with a narrower output adjustable range	In stock
N	100W max, Non-LPS with a wider output adjustable range	In stock



SPECIFICATION

	DC VOLTAGE RATED CURRENT	12V								
	DATED CUIDDENT			15V		24V		48V		
	KAIED 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	
OUTPUT	RATED POWER	85.2W	90W	92W	97.5W	92W	100.8W	92.2W	100.8W	
		120mVp-p		120mVp-p		150mVp-p	1.22.21	240mVp-p		
	VOLTAGE ADJ. Pass LPS	12 ~ 13V		15 ~ 17V		24 ~ 25.5V		48 ~ 48.7V		
	RANGE Non LPS	12~13.8V ±2.0%		13.5 ~ 18V ±1.0%		21.6 ~ 29V ±1.0%		43.2 ~ 55.2V ±1.0%		
	VOLTAGE TOLERANCE Note.3									
	LINE REGULATION	±1.0%		±1.0%		±1.0%		±1.0%		
	LOAD REGULATION	±1.0%		±1.0%		±1.0%		±1.0%		
		111		ns, 60ms/115VAC at full load		≟ 1.070		= 1.070		
	SETUP, RISE TIME	· · · · · · · · · · · · · · · · · · ·		,						
	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						1		
	EFFICIENCY (Typ.)	88%			90%		90%			
	AC CURRENT (Typ.)	3A/115VAC 1.6A/230VAC								
	INRUSH CURRENT (Typ.)	COLD START 35A/115VAC 70A/230VAC								
PROTECTION	OVERLOAD Note 4	HDR-100 : 102 ~ 110% rated output power ; HDR-100-xxN : 105 ~ 150% rated output power								
	OVERLOAD Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed								
KUTECTION	OVED VOLTAGE	14.2 ~ 16.2V	2V 18.8 ~ 22.5V 30 ~ 36V		56.5 ~ 64.8V					
ı	OVER VOLTAGE	Protection type	Protection type : Shut down o/p voltage, re-power on to recover							
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH n	on-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	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	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950-1								
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC		70 2 10, 120000	00 1, 2/10 11 10	JOT, DOMI ONO	14000 Tuppiovou,	, Design refer to	TOV LINOUSOU	
	ISOLATION RESISTANCE		Ohms / 500VDC / 2	05°C / 70% PH						
	IOOLATION NEOIOTANOE	Parameter	7111137 300 1 D O 7 2	Standard			Test Level / Note			
		Conducted			CISPR32), CNS13	1/20	Class B			
	FMO FMIODION				DISPR32), CNS13					
	EMC EMISSION	Radiated	(N. (. 5)	,	,-					
SAFETY &		Harmonic Curr	,	EN61000-3			Class A			
EMC		Voltage Flicker EN61000-3-3								
(Note 6)		EN55024, EN61000-6-2, EN61204-3								
		Parameter		Standard			Test Level /Note			
		ESD		EN61000-4-2			Level 3, 8KV air; Level 2, 4KV contact, criteria			
		Radiated Susce	eptibility	EN61000-4-3			Level 3, criteria A			
	EMC IMMUNITY	EFT/Burest		EN61000-4-4			Level 3, criteria A			
		Surge		EN61000-4-5			Level 4,2KV/L-N, criteria A			
		Conducted		EN61000-4	1-4-6 Level 3, criteria A					
		Magnetic Field		EN61000-4	-8	Level 4, criteria A				
		Voltage Dips a	nd interruptions	EN61000-4				>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/1.10CUFT								
NOTE	Ripple & noise are measure Tolerance : includes set up Constant current limiting operafault condition is removed. Harmonic current test at 90% The power supply is consided directives. For guidance on las available on http://www.r	Il parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ipple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ t & 47 μ t parallel capacitor. olerance: includes set up tolerance, line regulation and load regulation. onstant current limiting operation within 50% ~100% rated output voltage; protection type for short ciruit is hiccup mode, it will recover automatically after ult condition is removed. armonic current test at 90% load for HDR-100-xxN. he 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 rectives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." s available on http://www.meanwell.com) he 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)								

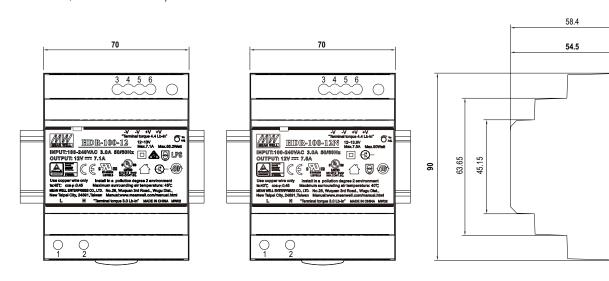


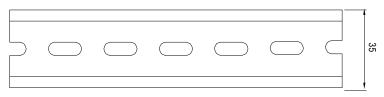




■ Mechanical Specification

(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