

























## Features

- · Ultra slim design with 70mm(4SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W</li>
- 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
- · LED indicator for power on
- · 3 years warranty

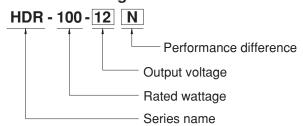
# Applications

- 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 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

File Name:HDR-100-SPEC 2022-12-02













#### **SPECIFICATION**

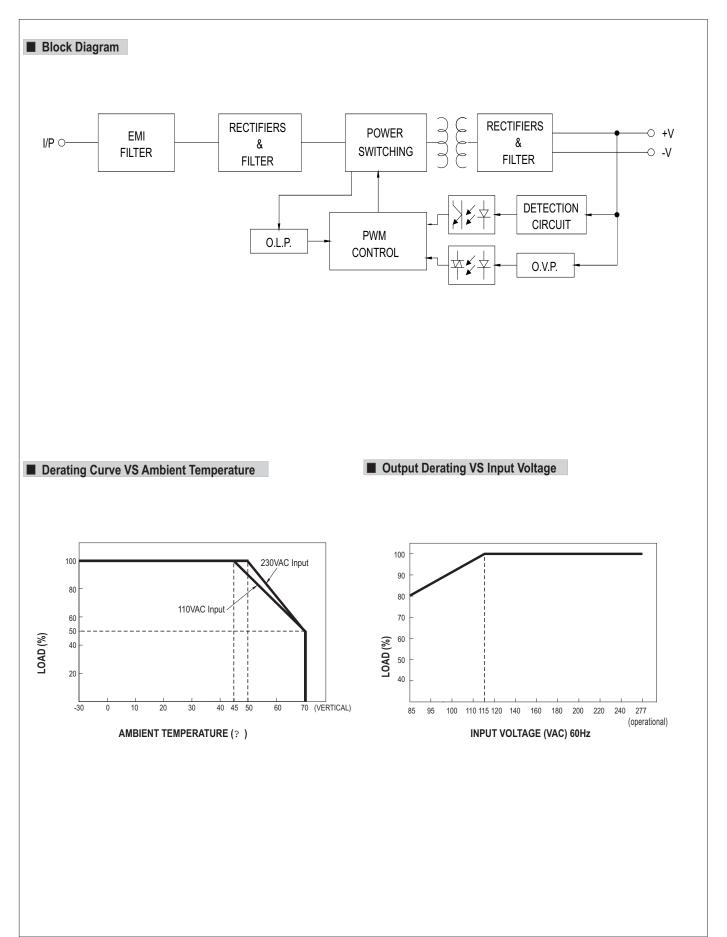
MODEL			HDR-100-12	HDR-100-12N	HDR-100-15	HDR-100-15N	HDR-100-24	HDR-100-24N	HDR-100-48	HDR-100-48N	
	DC VOLTAGE		12V		15V	•	24V		48V		
OUTPUT	RATED CURREN	NT	7.1A	7.5A	6.13A	6.5A	3.83A	4.2A	1.92A	2.1A	
	CURRENT RANG	GE	0 ~ 7.1A	0 ~ 7.5A	0 ~ 6.13A	0 ~ 6.5A	0 ~ 3.83A	0 ~ 4.2A	0~1.92A	0 ~ 2.1A	
	RATED POWER		85.2W	90W	92W	97.5W	92W	100.8W	92.2W	100.8W	
				0011	120mVp-p	07.077	150mVp-p	100.011	240mVp-p	100.011	
	VOLTAGE ADJ.	RIPPLE & NOISE (max.) Note.2  VOI TAGE AD.I Pass LPS							48 ~ 48.7V		
	RANGE Non LPS		12~13.8V		15 ~ 17V 13.5 ~ 18V		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%		
			±1.0%		±1.0%		±1.0%		±1.0%		
	LOAD REGULATION		,				⊥ 1.0 /0		⊥ 1.0 /0		
	SETUP, RISE TIME		500ms, 60ms/230VAC 500ms, 60ms/115VAC at full load								
	HOLD UP TIME	,	30ms/230VAC 12ms/115VAC at full load								
	VOLTAGE RANG	-	85 ~ 264VAC (277VAC operational ) 120 ~ 370VDC (390VDC operational )								
	FREQUENCY RA	ANGE	47 ~ 63Hz								
INPUT	EFFICIENCY (Typ.)		88% 89% 90%		90%	90%					
	AC CURRENT (Typ.)		3A/115VAC 1.6A/230VAC								
	INRUSH CURRE	NT (Typ.)	COLD START	35A/115VAC	70A/230VAC						
PROTECTION			HDR-100: 102 ~ 110% rated output power; HDR-100-xxN: 105 ~ 150% rated output power								
	OVERLOAD		Hiccup mode	when output vol	tage <50%, red	covers automatic	cally after fault	condition is rem	oved		
			Constant curre	nt limiting within	50% ~100%	rated output vo	oltage, recover	s automatically aft	er fault condition	is removed	
	01/50 1/01 74 01		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					
ENVIRONMENT	WORKING TEM	P.	-30 ~ +70°C (R	lefer to "Derating (	Curve")						
	WORKING HUM		20 ~ 90% RH n		,						
	STORAGE TEM		-40 ~ +85°C. 1	0 ~ 95% RH non-c	ondensing						
	TEMP. COEFFIC	,									
	VIBRATION	/I=IVI	±0.03%/°C (0 ~ 50°C) RH non-condensing  10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6								
	OPERATING A	VI TITLIDE									
	OVER VOLTAG		2000 meters	a to FN61558	EN50178 EN6	0664-1 FN624	77-1 · altitude	un to 2000 met	ere		
			III ; According to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000 meters								
	SAFETY STAND	JAKUS	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 VC	LTAGE	I/P-O/P:4KVAC								
	ISOLATION RES		I/P-O/P:100M (	Ohms / 500VDC / 2	25°C / 70% RH						
			Parameter Standard Test Level / Note						e		
	EMC EMISSION	Conducted			55032(CISPR32),	CNS13/38	Class B				
		Radiated			55032(CISPR32),						
	EMC EMISSION			ant (Nata E)			CN313430	Class B			
SAFETY &			Harmonic Curr		BS EN/EN6			Class A			
EMC			Voltage Flicker		BS EN/EN6						
(Note 5)	EMC IMMUNITY		BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3								
( )			Parameter		Standard Test L		Test Level /No				
			ESD		BS EN/EN6	BS EN/EN61000-4-2 Level 3, 8KV air;		r; Level 2, 4KV contact, criteria			
			Radiated Susce	eptibility	BS EN/EN6	BS EN/EN61000-4-3 Level 3, criteria A		ı A			
			EFT/Burest		BS EN/EN61000-4-4 Level 3, criteria A						
			Surge		BS EN/EN6	61000-4-5		Level 4,2KV/L-N, criteria A			
OTHERS			Conducted		BS EN/EN6	1000-4-6		Level 3, criteria A			
			Magnetic Field		BS EN/EN6			Level 4, criteria A			
				nd interruptions	BS EN/EN6			>95% dip 0. 5 periods, 30% dip 25 period >95% interruptions 250 periods			
	MTBF		3271.9K hrs	min. Telcord	lia SR-332 (Be	Chrs min.	MIL-HDBK-217F (25°C)				
	DIMENSION		70*90*54.5mm				( )				
	PACKING		0.27Kg; 48pcs/14Kg/1.06CUFT								
	All paramete     Ripple & nois     Tolerance : i     Harmonic curr	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)									











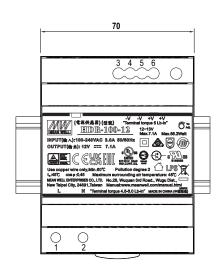


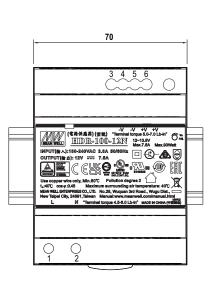


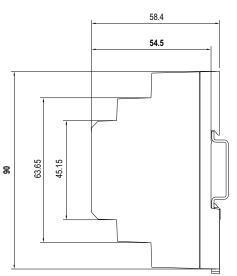


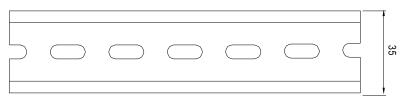
### ■ Mechanical Specification

(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





