



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

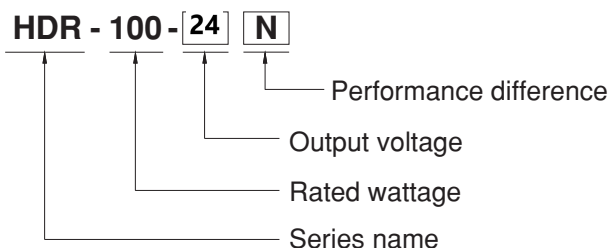
Applications

- 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. 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

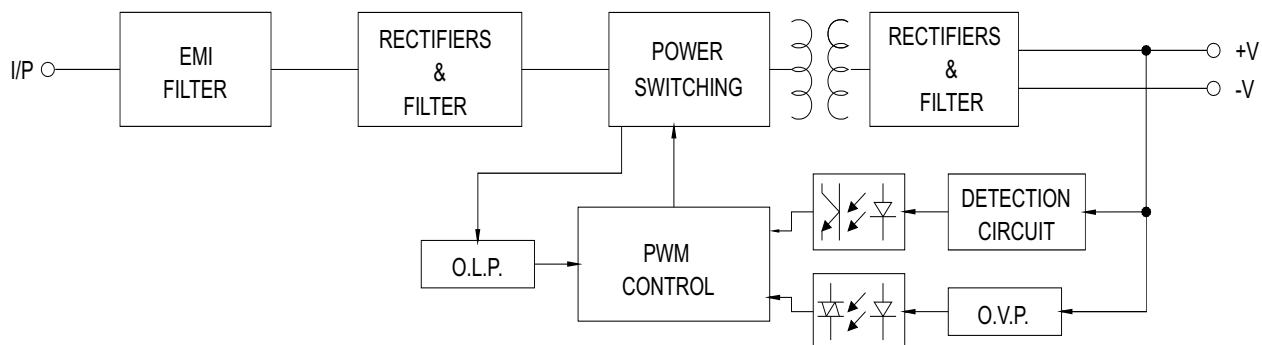


Type	Description	Note
Blank	92W max, Pass LPS with a narrower output adjustable range	In stock
N	100W max, Non-LPS with a wider output adjustable range	In stock

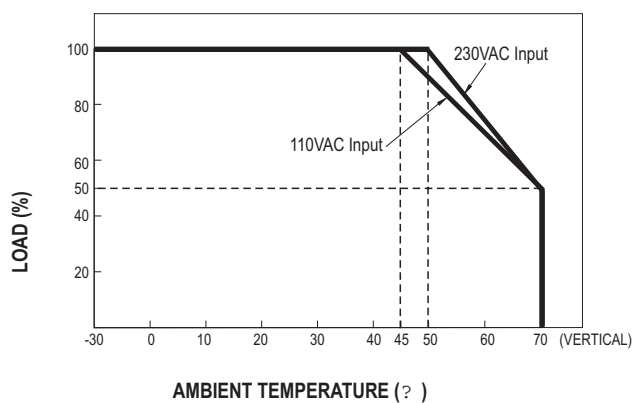
SPECIFICATION

MODEL			HDR-100-12	HDR-100-12N	HDR-100-15	HDR-100-15N	HDR-100-24	HDR-100-24N	HDR-100-48	HDR-100-48N
OUTPUT	DC VOLTAGE							24V		
	RATED CURRENT							3.83A		
	CURRENT RANGE							0 ~ 3.83A		
	RATED POWER							92W		
	RIPPLE & NOISE (max.) Note.2							150mVp-p		
	VOLTAGE ADJ. RANGE	Pass LPS						24 ~ 25.5V		
		Non LPS						21.6 ~ 29V		
	VOLTAGE TOLERANCE Note.3							± 1.0%		
	LINE REGULATION							± 1.0%		
	LOAD REGULATION							± 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 RANGE		47 ~ 63Hz							
	EFFICIENCY (Typ.)							90%		
	AC CURRENT (Typ.)		3A/115VAC 1.6A/230VAC							
	INRUSH CURRENT (Typ.)		COLD START 35A/115VAC 70A/230VAC							
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							
	OVER VOLTAGE							30 ~ 36V		
			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 non-condensing							
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT		± 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 & EMC (Note 5)	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							
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION		Parameter		Standard			Test Level / Note		
			Conducted		EN55032(CISPR32), CNS13438			Class B		
			Radiated		EN55032(CISPR32), CNS13438			Class B		
			Harmonic Current (Note 5)		EN61000-3-2			Class A		
			Voltage Flicker		EN61000-3-3			-----		
	EMC IMMUNITY		EN55024, EN61000-6-2, EN61204-3							
			Parameter		Standard			Test Level /Note		
			ESD		EN61000-4-2			Level 3, 8KV air; Level 2, 4KV contact, criteria A		
			Radiated Susceptibility		EN61000-4-3			Level 3, criteria A		
			EFT/Burest		EN61000-4-4			Level 3, criteria A		
			Surge		EN61000-4-5			Level 4,2KV/L-N, criteria A		
			Conducted		EN61000-4-6			Level 3, criteria A		
			Magnetic Field		EN61000-4-8			Level 4, criteria A		
			Voltage Dips and 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	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Harmonic current test at 90% load for HDR-100-xxN. 5. 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) 6. The ambient temperature testing of 25°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Distributed by TELEHOUSE Electronics GmbH https://www.tele-online.com/									

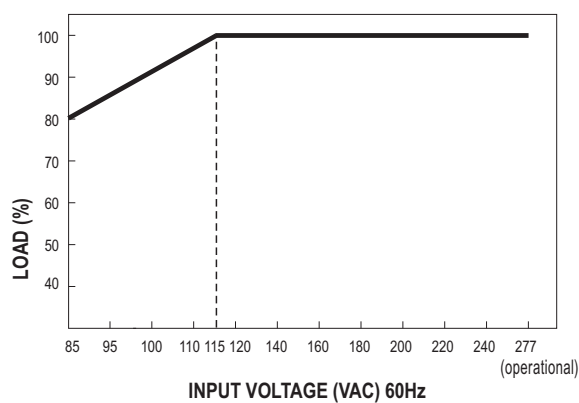
Block Diagram



Derating Curve VS Ambient Temperature

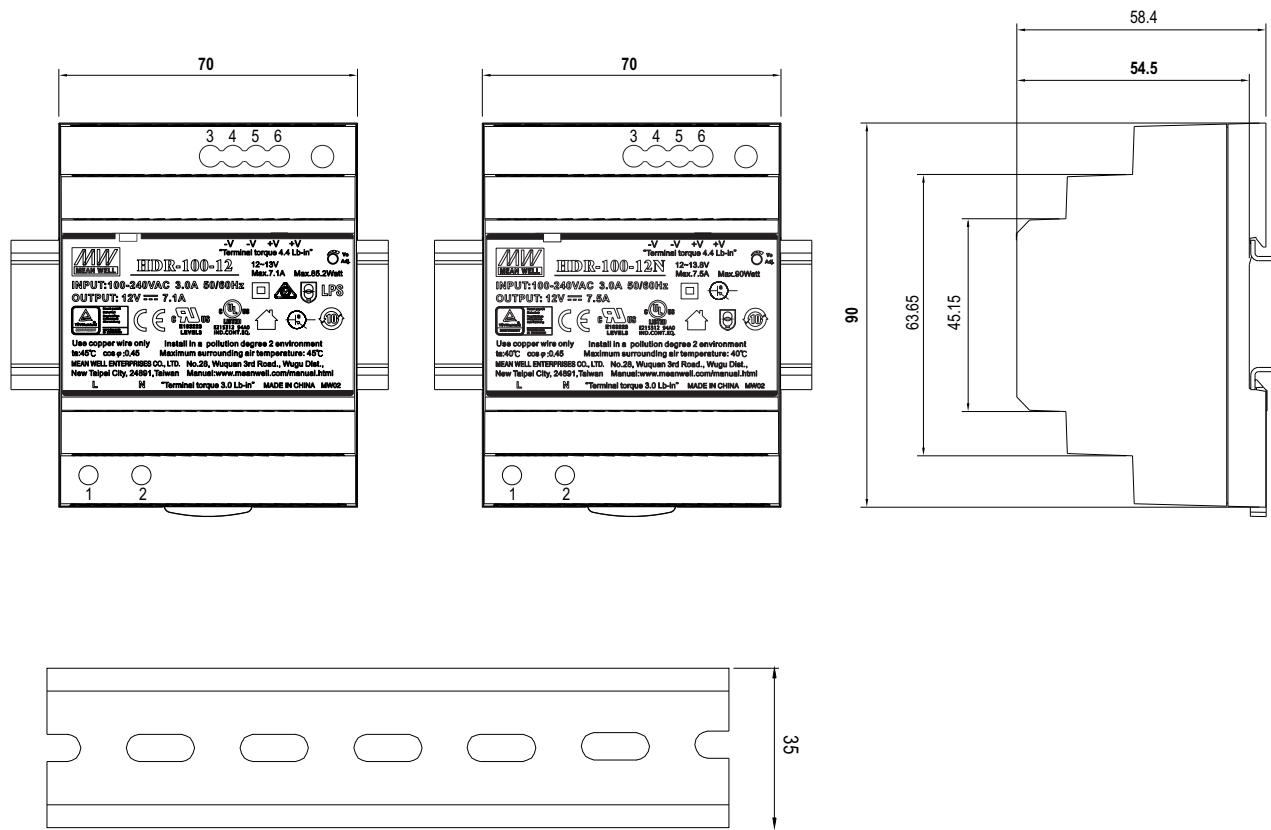


Output Derating VS Input Voltage



Mechanical Specification

(Unit: mm , tolerance $\pm 0.5\text{mm}$)



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>

TELE Nr.: #491704