































 $^{\circ}$ C

#### 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

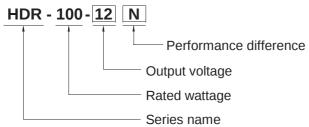
## Applications

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 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 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
Blank	92W max, Pass LPS with a narrower output adjustable range
N	100W max, Non-LPS with a wider output adjustable range



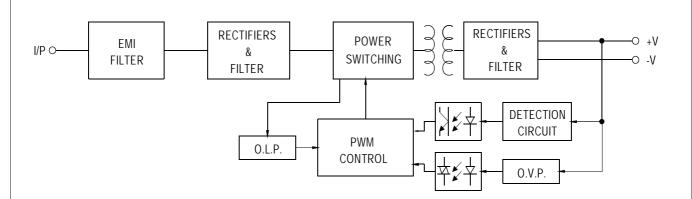
#### SPECIFICATION

MODEL			пик-100-12N		חטוו-אטח		HDR-100-24N		пик-100-4	
	DC VOLTAGE	12V		15V		24V		48V		
	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	120mVp-p		120mVp-p		150mVp-p		240mVp-p		
OUTPUT	VOLTAGE ADJ. Pass LPS	12 ~ 13V 12~ 13.8V		15 ~ 17V				48 ~ 48.7V		
	RANGE Non LPS			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%		
	LOAD REGULATION	1.0%		1.0%		1.0%		1.0%		
	SETUP, RISE TIME	· ·		ms,6 0ms/115VAC at full load						
	HOLD UP TIME (Typ.)	30ms/230VAC		C at full load						
	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)								
	FREQUENCY RANGE	47 ~ 63Hz								
NPUT	EFFICIENCY (Typ.)	88%		89%		90%		90%		
	AC CURRENT (Typ.)	3A/115VAC	3A/115VAC 1.6A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 36A/115VAC 70A/230VAC								
	OVEDLOAD Note 4	HDR-100:102 ~ 110% rated output power; HDR-100-xxN:105 ~ 150% rated output power								
ROTECTION	OVERLOAD Note.4	Protection type	: Constant currer	nt limiting, recove	rs automatically a	1	on is removed			
KUTECTION	OVED VOLTA CE	14.2 ~ 16.2V		18.8 ~ 22.5V		30 ~ 36V		56.5 ~ 64.8V		
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	-30 ~ +70 (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85 , 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	0.03%/ (0 ~ 50 ) 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								
	SAFETY STANDARDS	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1 a pproved; Design refer to EN50178, TUV EN60950-1								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	,							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25 / 70% RH								
		Parameter		Standard			Test Level / Note			
	EMC EMISSION	Conducted		EN55032 (CISPR32) CI		Class B				
		Radiated		EN55032 (CISPR32)		Class B				
SAFETY &		Harmonic Curre	nt (Note 5)	EN61000-3-2		Class A				
		Voltage Flicker		EN61000-3-	3					
EMC		EN55024, EN61000-6-2, EN61204-3								
(Note 6)	EMC IMMUNITY	Parameter		Standard	Standard		Test Level /Note			
		ESD EN61000-4-2			Level 3, 8KV air; Level 2, 4KV contact, criteria		ntact, criteria A			
		Radiated Susce	Radiated Susceptibility EN61000-4-3			Level 3, criteria A				
		EFT/Burest				Level 3, criteria A				
		Surge					Level 4,2KV/L-N	(V/L-N, criteria A		
		Conducted EN61000-4-6			Level 3, criteria A					
		Magnetic Field EN61000-4-8				Level 4, criteria A				
		Voltage Dips an	d 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)								
J I I I L I N J	PACKING	0.27Kg; 48pcs/14Kg/1.10CUFT								
IOTE	Ripple & noise are measur     Tolerance : includes set up     Constant current limiting operault condition is removed.	parameters NOT specially mentioned are measured at 230VAC input, rated load and 25of ambient temperature.  pple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 f 4 47 f parallel capacitor.  lerance: includes set up tolerance, line regulation and load regulation.  Instant current limiting operation within 50% ~100% rated output voltage; protection type for short ciruit is hiccup mode, it will recover automatically after lit condition is removed.  It condition is removed.  The condition is removed to the condition is removed.								

- 6. 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)

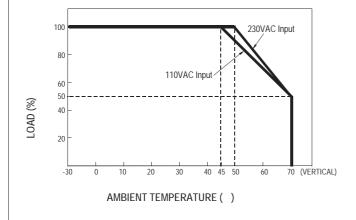


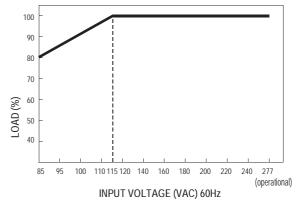
### ■ Block Diagram



# ■ Derating Curve VS Ambient Temperature

# ■ Output Derating VS Input Voltage

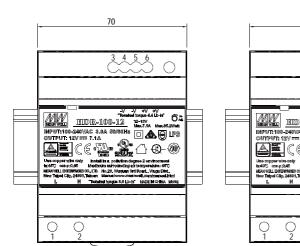


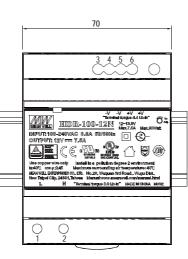


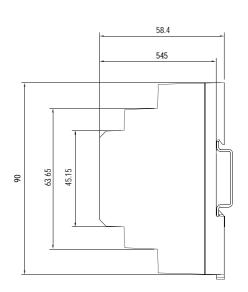


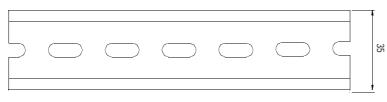
### ■ Mechanical Specification

(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 : <a href="http://www.meanwell.com/manual.html">http://www.meanwell.com/manual.html</a>