

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

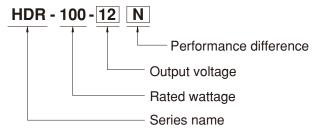
# Applications

- · 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.

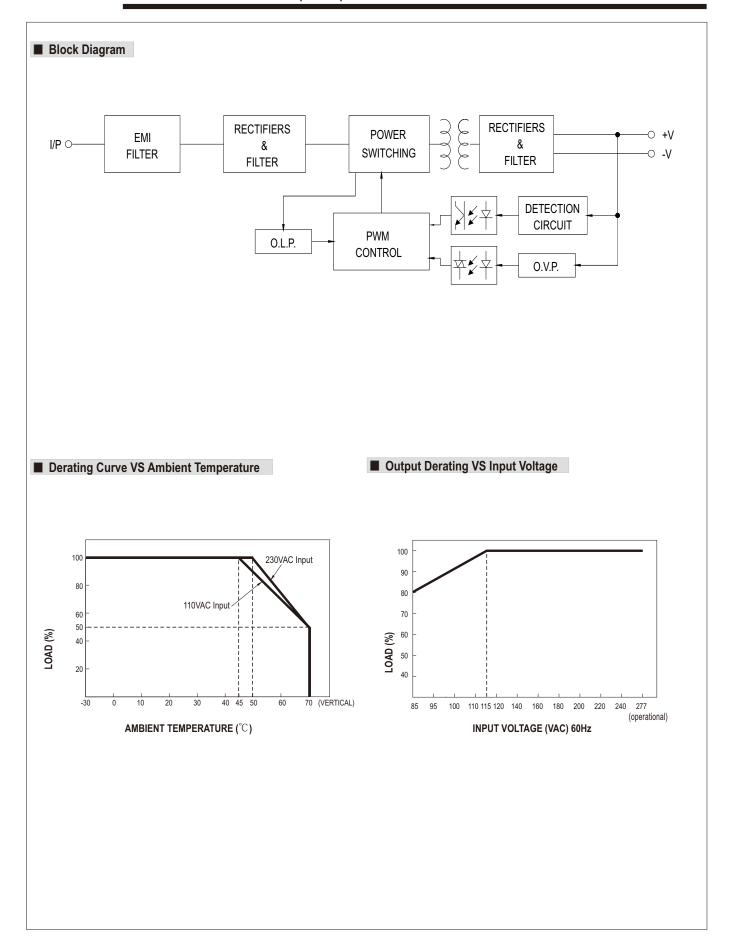
## Model Encoding



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	

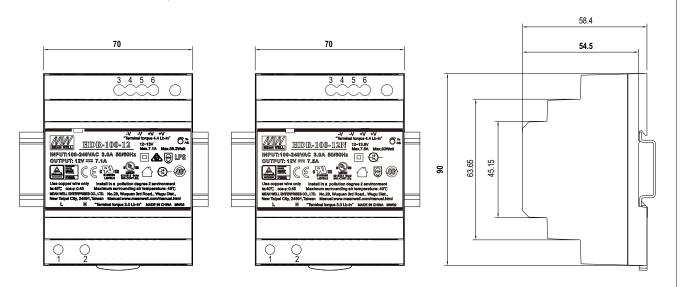
## **SPECIFICATION**

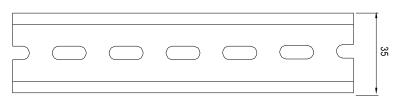
		12V 7.1A		15V		24V		48V	
CURRENT RANG RATED POWER RIPPLE & NOISE		7.1A							
RATED POWER RIPPLE & NOISE	F		7.5A	6.13A	6.5A	3.83A	4.2A	1.92A	2.1A
RATED POWER RIPPLE & NOISE		0 ~ 7.1A	0 ~ 7.5A	0 ~ 6.13A	0 ~ 6.5A	0 ~ 3.83A	0 ~ 4.2A	0 ~1.92A	0 ~ 2.1A
RIPPLE & NOISE	<b>'=</b>	85.2W	90W	92W	97.5W	92W	100.8W	92.2W	100.8W
	RIPPLE & NOISE (max.) Note.2		0011	-	01.011	150mVp-p	100.077	240mVp-p	100.011
					24 ~ 25.5V	- '		48 ~ 48.7V	
TOLINGE ADO.	Non LPS	12~13V 12~13.8V		15 ~ 17V 13.5 ~ 18V		24 ~ 25.5V 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%	
	-		500ms, 60ms/230VAC 500ms, 60ms/115VAC at full load		⊥ 1.0 /0		1.070		
SETUP, RISE TIM									
HOLD UP TIME (	• • •	30ms/230VAC 12ms/115VAC at full load							
VOLTAGE RANG		85 ~ 264VAC (277VAC operational ) 120 ~ 370VDC (390VDC operational )							
FREQUENCY RA		47 ~ 63Hz				I		I	
	-			89%		90%		90%	
``									
INRUSH CURRE	NT (Typ.)	COLD START 35A/115VAC 70A/230VAC							
OVEDI OAD	Note 4	HDR-100 : 102 ~ 110% rated output power ; HDR-100-xxN : 105 ~ 150% rated output power							
		Protection type	: Constant current		rs automatically af	ter fault conditior	is removed		
		14.2 ~ 16.2V				30 ~ 36V	V 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 HUMI	DITY	20 ~ 90% RH n	on-condensing						
STORAGE TEMP	., HUMIDITY	$-40 \sim +85^{\circ}\text{C}$ , $10 \sim 95\%$ RH non-condensing							
TEMP. COEFFICI	ENT	$\pm 0.03\%$ °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 A	LTITUDE	2000 meters							
OVER VOLTAGE	CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters							
SAFETY STAND	ARDS	UL60950-1, UL	508, TUV EN6155	8-2-16, IEC609	50-1, EAC TP TC	004, BSMI CNS1	4336-1 approved;	Design refer to	TUV EN60950-
WITHSTAND VO	LTAGE	I/P-O/P:4KVAC							
ISOLATION RES	STANCE	I/P-O/P:100M (	Ohms / 500VDC / 2	25°C / 70% RH					
		Parameter		Standard			Test Level / Not	e	
		Conducted		EN55032(0	CISPR32), CNS13	3438	Class B		
FMC FMISSION	Radiated					Class B			
			ent (Note 5)	EN61000-3	3-2	Class A			
			, ,						
EMC IMMUNITY		·							
				111 111					
			ontibility		·		-		
			эрпынту						
						, ,			
		wagnetic Fleid			05% din 0 5 noriode 30% din 25 nor		in 25 pariods		
		Voltage Dips a	Dips and interruptions EN61000-4-11 Sys% dip 0. 5 periods, 30% dip 25 periods Sys% dip 0. 5 periods, 30% dip 25 periods						
MTBF									
DIMENSION		70*90*54.5mm (W*H*D)							
PACKING									
<ol> <li>Ripple &amp; nois</li> <li>Tolerance : in</li> <li>Constant curre fault condition</li> <li>Harmonic curre</li> <li>The power su directives. For (as available of</li> </ol>	e are measure cludes set up ent limiting opera is removed. ent test at 90% apply is conside guidance on l on http://www.r	ad at 20MHz of tolerance, line ration within 50% load for HDR-10 ered as an inde thow to perform meanwell.com)	bandwidth by us egulation and loa ~100% rated outp 0-xxN. pendent unit, but these EMC tests	ing a 12" twister ad regulation. but voltage; prote the final equip , please refer t	ed pair-wire termi ection type for sho ment still need to o "EMI testing of	nated with a 0.1 rt ciruit is hiccup o re-confirm that component pov	μf & 47μf parallel mode,it will recove the whole systever supplies."	er automatically a	n the EMC
	CONTRIBUTION  CO	EFFICIENCY (Typ.) NC CURRENT (Typ.) NRUSH CURRENT (Typ.)  DVERLOAD Note.4  DVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT WIBRATION DPERATING ALTITUDE DVER VOLTAGE CATEGORY SAFETY STANDARDS WITHSTAND VOLTAGE SOLATION RESISTANCE  EMC EMISSION  EMC EMISSION  ALI parameters NOT special REMC EMISSION  EMC EMISSION  TO EMERSION  ALI parameters NOT special REMC EMISSION  TO EMISSION  T	EFFICIENCY (Typ.)  AC CURRENT (Typ.)  AC CURRENT (Typ.)  NRUSH CURRENT (Typ.)  DVERLOAD  Note.4  HDR-100: 102  Protection type  14.2 ~ 16.2V  Protection type  15.0 ~ 70°C (R. 10°C)  WORKING HUMIDITY  15.0 ~ 90% RH n. 10°C (R. 10°C)  15.0 ~ 10°C (R. 10°C)  16.0 ~ 10°C (R. 10°C)  16.0 ~ 10°C (R. 10°C)  17.0 ~ 10°C (R. 10°C)  18.0 ~ 10°	ACC CURRENT (Typ.)  ACC CURRENT (Typ.)  ANA/115VAC  1.6A/230VAC  COLD START 35A/115VAC  HDR-100 : 102 ~ 110% rated outpoor rate of the protection type : Constant current of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Shut down o/p volume of the protection type : Constant current o/p volume of the protection type : Constant current o/p volume of the protection type : Constant current o/p volume of the protection type : Constant current o/p volume of the protection type : Constant current o/p volume of the protection type : Constant current o/p volume o/p volu	SEFICIENCY (Typ.)   88%   89%   89%   89%   80   80%	### CURRENT (Typ.) ### CURRENT (	SPECIENCY (Typ.)   88%   89%   90%   90%	Ref   Ref	COURRENT (Typ.)   88%   89%   90%   90%   90%



### ■ 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