





























Features

- Ultra slim design with 17.5mm(1SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${\mathbb I}$
- Pass LPS (Limited power source)
- 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

GTIN CODE

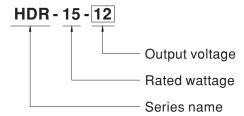
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

HDR-15 is one economical ultra slim 15W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 17.5mm(1SU) 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-15 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 87%, the entire series can operate at the ambient temperature between -30 $^{\circ}$ 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-15 a very competitive power supply solution for household and industrial applications.

Model Encoding

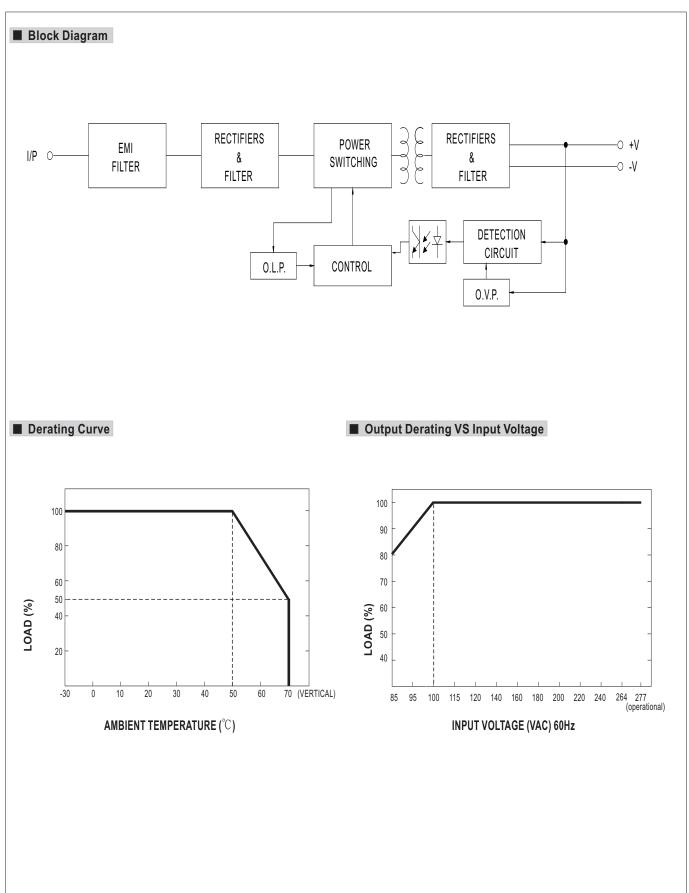




SPECIFICATION

MODEL		HDR-15-5	HDR-15-12	HDR-15-15	HDR-15-24	HDR-15-48	
	DC VOLTAGE	5V	12V	15V	24V	48V	
	RATED CURRENT	2.4A	1.25A	1A	0.63A	0.32A	
	CURRENT RANGE	0 ~ 2.4A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.63A	0 ~ 0.32A	
	RATED POWER	12W	15W	15W	15.2W	15.4W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13.8V	13.5 ~ 18V	21.6 ~ 29V	43.2 ~ 55.2V	
OUIPUI	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
		2000ms, 80ms/230VAC	1.11	1 11	1.0 /₀	⊥ 1.0 /0	
	SETUP, RISE TIME			l Iuli Ioau			
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms/115VAC at full load					
ŀ	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)					
	FREQUENCY RANGE	47 ~ 63Hz					
NPUT	EFFICIENCY (Typ.)	80%	85%	85.5%	86%	87%	
	AC CURRENT (Typ.)		/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC					
		110 ~ 145% rated output power					
	OVERLOAD	Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed					
PROTECTION		Constant current limiting	within 50% ~100% rat	ed output voltage, reco	vers automatically after fau	It condition is removed	
		5.75 ~ 6.75V	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5 ~ 64.8V	
	OVER VOLTAGE	Protection type : Shut off		ener diode			
	WORKING TEMP.	Protection type: Shut off o/p voltage, clamping by zener diode -30 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-conde					
	STORAGE TEMP., HUMIDITY						
NVIRONMENT	TEMP. COEFFICIENT	$-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH non-condensing $\pm 0.03\%$ °C ($0 \sim 50^{\circ}\text{C}$) RH non-condensing					
INVIKONWENT	VIBRATION	, ,					
	OPERATING ALTITUDE	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6					
		2000 meters					
	OVER VOLTAGE CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters					
	SAFETY STANDARDS	UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS15598-1 approved Design refer to TUV BS EN/EN62368-1					
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC					
	ISOLATION RESISTANCE		N/DC / 25°C / 700/ DU				
	IOOLATION NESIGNANCE	/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION	Parameter		VOIODDON ONO45000			
		Conducted		2(CISPR32), CNS15936	Class B		
		Radiated		2(CISPR32), CNS15936	Class B		
		Harmonic Current	BS EN/EN61000		Class A		
SAFETY & EMC		Voltage Flicker	BS EN/EN61000				
	EMC IMMUNITY	BS EN/EN55035, BS EN/		51204-3			
(Note 4)		Parameter	Standard		Test Level /Note		
		ESD	BS EN/EN61000	-	Level 3, 8KV air; Leve	l 2, 4KV contact, criteria	
		Radiated Susceptibility	BS EN/EN61000	0-4-3	Level 3, criteria A		
		EFT/Burest	BS EN/EN6100	0-4-4	Level 3, criteria A		
		Surge	BS EN/EN61000-4-5		Level 4,2KV/L-N, criteria A		
		Conducted	ducted BS EN/EN61000-4-6		Level 3, criteria A		
		Magnetic Field	lagnetic Field BS EN/EN61000-4-8		Level 4, criteria A		
		voltage DIPs and Interruptions BS EN/EN01000-4-11		>95% interruptions 2			
	MTBF	3724.3K hrs min. Telcordia SR-332 (Bellcore) ; 1166.1K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	17.5*90*54.5mm (W*H*D)					
	PACKING	74g;160pcs/12.9Kg/1.09CUFT					
NOTE	 Ripple & noise are measure Tolerance : includes set up to The power supply is consided directives. For guidance on to (as available on https://www. The ambient temperature de 	ally mentioned are measured at 230VAC input, rated load and $25^{\circ}\mathbb{C}$ of ambient temperature. Irred at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a $0.1~\mu$ F & 47 μ F parallel capacitor. To tolerance, line regulation and load regulation. In the interest of the final equipment still need to re-confirm that the whole system complies with the EMC in how to perform these EMC tests, please refer to "EMI testing of component power supplies." It www.meanwell.com//Upload/PDF/EMI_statement_en.pdf () derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). It is refer to https://www.meanwell.com/serviceDisclaimer.aspx					



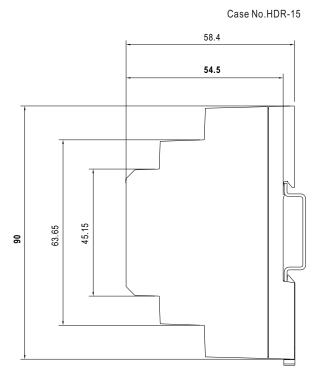


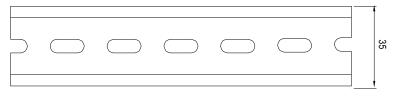


■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

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Pin No.	Assignment	Pin No.	Assignment				
1	+V	3	AC/N				
2	-V	4	AC/L				

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html