



























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

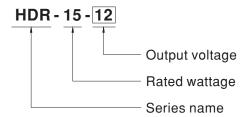
Description

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

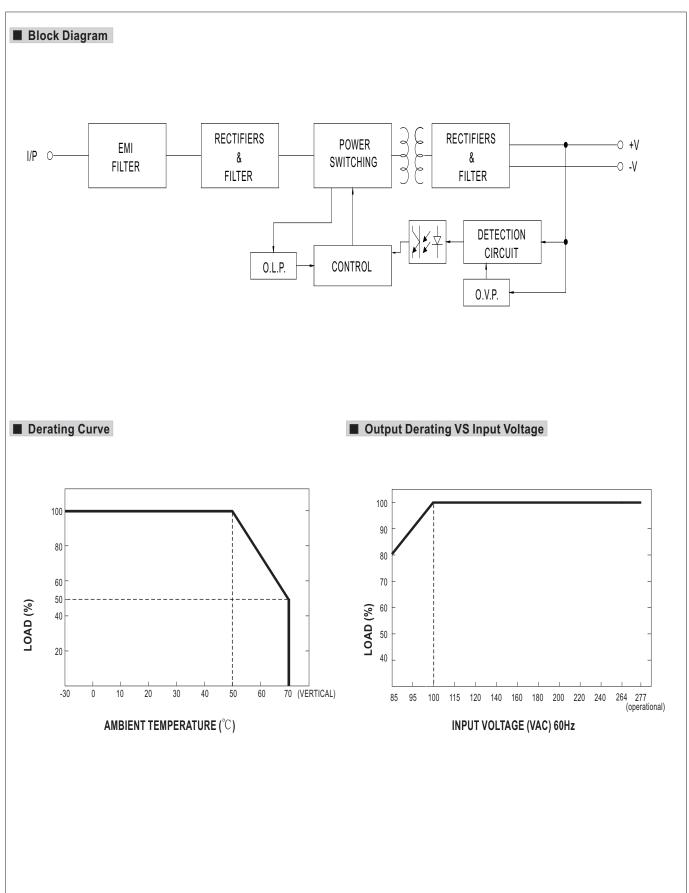




SPECIFICATION

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	
	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					
INPUT	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	80%	85%	85.5%	86%	87%	
	AC CURRENT (Typ.)		/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC					
	OVERLOAD	110 ~ 145% rated output power					
PROTECTION		Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed					
		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	o/p voltage, clamping by z	ener diode			
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-conde					
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	$\pm 0.03\%^{\circ}$ C (0 ~ 50°C) RH non-condensing					
INVIKONWENT	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	cycle, period for domini. ea	soli along A, 1, 2 axes, wo	unting. Compliance to ILC	00000-2-0	
	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	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH Parameter					
	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 &		Voltage Flicker	BS EN/EN61000				
EMC	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	bility BS EN/EN61000-4-3		Level 3, criteria A		
		EFT/Burest	T/Burest BS EN/EN61000-4-4		Level 3, criteria A		
		Surge	BS EN/EN61000-4-5 Level 4,2KV/L-N, criteria A		eria A		
		Conducted	BS EN/EN61000-4-6		Level 3, criteria A		
		Magnetic Field	etic Field BS EN/EN61000-4-8		Level 4, criteria A		
		Voltage Dips and interruptions BS EN/EN61000-4-11 >95% dip 0. 5 periods, 30% dip 25 periods >95% interruptions 250 periods			250 periods		
OTHERS	MTBF		lcordia SR-332 (Bellcor	e); 1166.1K hrs min.	MIL-HDBK-217F (25°C)	
	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 	Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. tolerance, line regulation and load regulation. lered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC how to perform these EMC tests, please refer to "EMI testing of component power supplies." w.meanwell.com//Upload/PDF/EMI_statement_en.pdf) lerating of 3.5 $^{\circ}$ C/1000m with fanless models and of 5 $^{\circ}$ C/1000m with fan models for operating altitude higher than 2000m(6500ft). r : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					

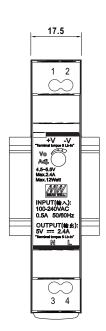


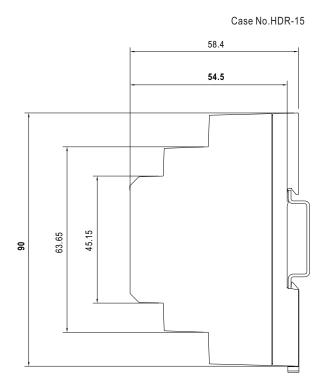


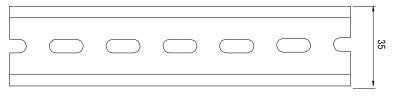


■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







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

Terminal Pin No. Assignment

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