

HDR-15 series







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

Description

Applications

- · Household control system
- · Building automation
- · Industrial control system
- · Factory automation
- Electro-mechanical apparatus

GTIN CODE

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

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°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.





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	
DUTPUT	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13.8V	13.5 ~ 18V	21.6 ~ 29V	43.2 ~ 55.2V	
001101	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%	
	SETUP, RISE TIME	2000ms, 80ms/230VAC 2000ms, 80ms/115VAC at full load					
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms/115VAC at full load					
	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.)	0.5A/115VAC 0.25A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC					
	OVERLOAD	110 ~ 145% rated output power					
		Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed					
ROTECTION		Constant current limiting	within 50% ~100%	6 rated output voltage, rec	overs automatically af	ter fault 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	a by zener diode			
	WORKING TEMP.	-30 ~ +70°C (Refer to "D		, ,			
		20 ~ 90% RH non-conde	- · ·				
	STORAGE TEMP., HUMIDITY						
NVIRONMENT	TEMP. COEFFICIENT	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
INVIRUNMENT		±0.03%/°C (0~50°C) RH non-condensing					
		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 STANDARDS	UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS14336-1 approve Design refer to TUV BS EN/EN62368-1					
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC					
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 50		1			
	ISOLATION RESISTANCE			1	Test Level / Net	-	
	EMC EMISSION	Parameter	Standard		Test Level / Not	e	
		Conducted		55032(CISPR32), CNS13438	Class B		
		Radiated		55032(CISPR32), CNS13438	Class B		
		Harmonic Current	BS EN/EN	51000-3-2	Class A		
SAFETY &		Voltage Flicker	BS EN/EN				
ЕМС	EMC IMMUNITY	BS EN/EN55035, BS EN	/EN61000-6-2, BS EN	N/EN61204-3			
(Note 4)		Parameter	Standard		Test Level /Not	e	
		ESD	BS EN/EN	61000-4-2	Level 3, 8KV air	; Level 2, 4KV contact, criteria	
		Radiated Susceptibility	BS EN/EN	61000-4-3	Level 3, criteria A		
		EFT/Burest	BS EN/EN	61000-4-4	Level 3, criteria A		
		Surge	BS EN/EN	61000-4-5	Level 4,2KV/L-1	N, criteria A	
		Conducted	BS EN/EN	61000-4-6	Level 3, criteria		
		Magnetic Field	BS EN/EN	BS EN/EN61000-4-8 Level 4, criteria A			
		Voltage Dips and interrup		61000-4-11	>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	3724.3K hrs min. Telcordia SR-332 (Bellcore) ; 1166.1K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	17.5*90*54.5mm (W*H*D)					
	PACKING	74g;160pcs/12.9Kg/1.04CUFT					
NOTE	 Ripple & noise are measure Tolerance : includes set up t The power supply is conside directives. For guidance on I (as available on http://www.r 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 0.1µf & 47µf parallel capacitor. tolerance, line regulation and load regulation. dered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC to be perform these EMC tests, please refer to "EMI testing of component power supplies."					



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Mechanical Specification



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

Installation Manual

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