





























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

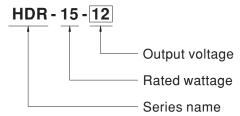
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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

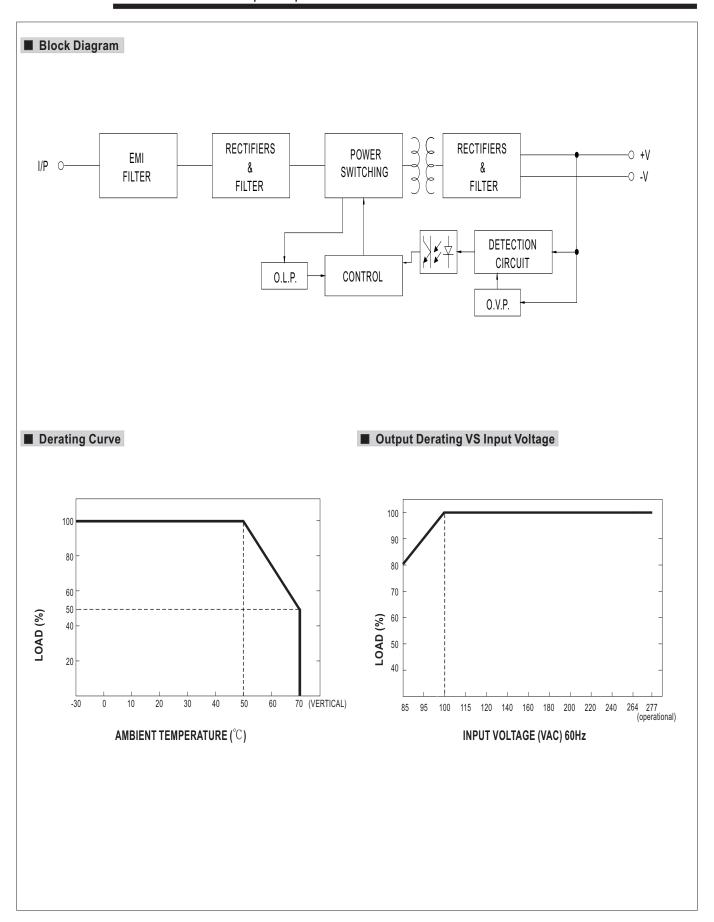
working efficiency up to 87%, the entire series can operate at the ambient temperature between -30 $^{\circ}$ C and 70°C under air convection. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC62368-1, UL508, UL62368-1, BS EN/EN61558-2-16) make HDR-15 a very competitive power supply solution for household and industrial applications.

Model Encoding



SPECIFICATION

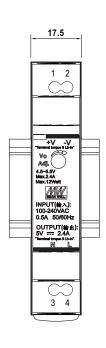
MODEL		HDR-15-5	HDR-15-12	HDR-15-15	HDR-15-24	HDR-15-48		
	DC VOLTAGE	5V	12V	15V	24V	48V		
	RATED CURRENT	2.4A	1.25A	1A	0.63A	0.32A		
	CURRENT RANGE	0 ~ 2.4A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.63A	0 ~ 0.32A		
	RATED POWER	12W	15W	15W	15.2W	15.4W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p		
DUTPUT	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%		
	SETUP, RISE TIME	2000ms, 80ms/230VAC		1.11		= 1.070		
	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						
		80%	85%	85.5%	86%	87%		
NFUI	EFFICIENCY (Typ.) AC CURRENT (Typ.)		1	03.3%	00%	0176		
	OVERLOAD	COLD START 25A/115VAC 45A/230VAC						
		110 ~ 145% rated output power						
		Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed Constant current limiting within 50% ~100% rated output voltage, recovers automatically after fault condition is removed						
PROTECTION		Constant current limiting	1	1 0.	overs automatically at	ter fault condition is removed		
	OVER VOLTAGE	5.75 ~ 6.75V	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5 ~ 64.8V		
	OVER VOLIAGE	Protection type : Shut of	ff o/p voltage, clampir	ng by zener diode				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-cond	lensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing						
ENVIRONMENT	TEMP. COEFFICIENT	$\pm 0.03\%$ °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 ALTITUDE	2000 meters						
	OVER VOLTAGE CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters						
	CAFETY CTANDADDC	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						
	SAFETY STANDARDS							
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 50	00VDC / 25°C / 70% F	RH				
		Parameter	Standard		Test Level / Not	е		
	EMC EMISSION	Conducted	BS EN/EN	N55032(CISPR32), CNS15936	Class B			
		Radiated		S EN/EN55032(CISPR32), CNS15936 Class B				
		Harmonic Current		V61000-3-2	Class A			
		Voltage Flicker		BS EN/EN61000-3-3				
SAFETY &		BS EN/EN55035, BS EI						
EMC	EMC IMMUNITY	Parameter	Standard		Test Level /Not	Δ		
(Note 4)		ESD		V61000-4-2				
						; Level 2, 4KV contact, criteria		
		Radiated Susceptibility	*		Level 3, criteria A			
		EFT/Burest			Level 3, criteria A			
		Surge		N61000-4-5	Level 4,2KV/L-I			
		Conducted		BS EN/EN61000-4-6		Level 3, criteria A		
		Magnetic Field	BS EN/EN61000-4-8		Level 4, criteria A			
		/oltage Dips and interruptions BS EN/EN61000-4-11			>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
	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	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µ F & 47 µ F parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							

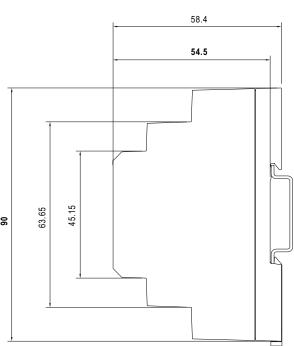


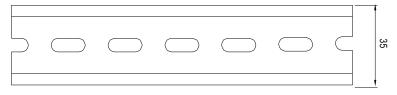
■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)

Case No.HDR-15







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