































Features

- Ultra slim design with 35mm(2SU) 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

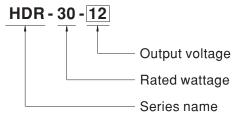
GTIN CODE

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

Description

HDR-30 is one economical ultra slim 30W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 35mm(2SU) 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-30 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. 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-30 a very competitive power supply solution for household and industrial applications.

Model Encoding

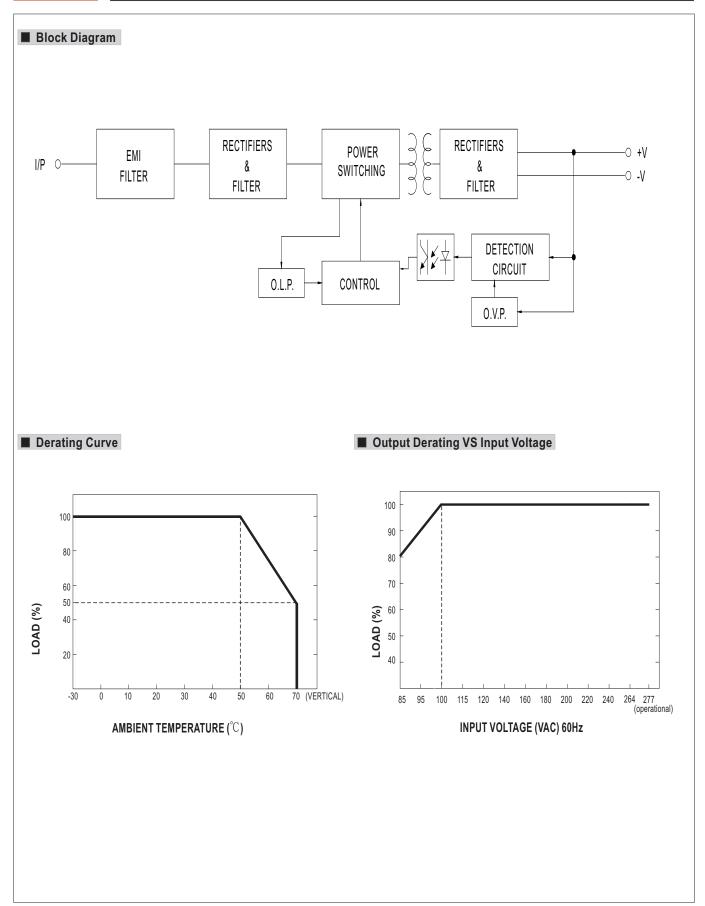


30W Ultra Slim Step Shape DIN Rail

SPECIFICATION

MODEL		HDR-30-5	HDR-30-12	HDR-30-15	HDR-30-24	HDR-30-48	
	DC VOLTAGE	5V	12V	15V	24V	48V	
OUTPUT	RATED CURRENT	3A :	2A	2A	1.5A	0.75A	
	CURRENT RANGE	0 ~ 3A	0 ~ 2A	0 ~ 2A	0 ~ 1.5A	0 ~ 0.75A	
	RATED POWER	15W :	24W	30W	36W	36W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p	
	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	±2.0%	±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	500ms, 50ms/230VAC 500ms, 50ms/115VAC at full load					
	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.)	82%	88%	89%	89%	90%	
	AC CURRENT (Typ.)	0.88A/115VAC 0.48A	/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC					
PROTECTION	105 ~ 160% rated output power						
	OVERLOAD	Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed					
			•	ed output voltage, recov			
	OVER VOLTAGE	5.75 ~ 7.5V	15 ~ 18V	18.8 ~ 22.5V	30 ~ 36V	57.6~ 67.2V	
		Protection type : Shut dow	n o/p voltage, re-power o	on to recover	I		
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
ENVIRONMENT	TEMP. COEFFICIENT	$\pm 0.03\%$ °C (0 ~ 50°C) RH non-condensing					
ENVICTIMENT	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					
	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	I/P-O/P:100M Ohms / 500	VDC / 25°C / 70% RH				
	EMC EMISSION	Parameter	Standard		Test Level / Note		
		Conducted	BS EN/EN5503	2(CISPR32), CNS15936	Class B		
		Radiated	BS EN/EN5503	2(CISPR32), CNS15936	Class B		
SAFETY & EMC (Note 4)		Harmonic Current	BS EN/EN6100	0-3-2	Class A		
		Voltage Flicker	BS EN/EN6100				
	EMC IMMUNITY	BS EN/EN55035, BS EN/I		61204-3			
		Parameter	Standard		Test Level /Note		
		ESD	BS EN/EN610			vel 2, 4KV contact, criteria A	
		Radiated Susceptibility	BS EN/EN610		Level 3, criteria A		
		EFT/Burest	BS EN/EN610		Level 3, criteria A		
		Surge	BS EN/EN610		Level 4,2KV/L-N, cr	iteria A	
		Conducted Magnetic Field	BS EN/EN610 BS EN/EN610		Level 4, criteria A		
		Magnetic Field			Level 4, criteria A	ods, 30% dip 25 periods,	
	MTBF	Voltage Dips and interrupti 3670.4K hrs min. To			>95% interruptions	s 250 periods	
OTHERS	DIMENSION	3670.4K hrs min. Telcordia SR-332 (Bellcore) ; 968.1K hrs min. MIL-HDBK-217F (25°C) 35*90*54.5mm (W*H*D)					
	PACKING	0.13Kg;96pcs/14.2Kg/1.04CUFT					
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up: The power supply is consided directives. For guidance on (as available on https://www.	IOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Fer measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. des set up tolerance, line regulation and load regulation. By is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC uidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) nperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					

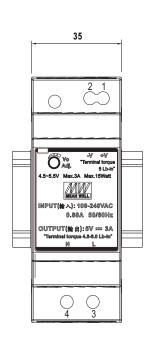


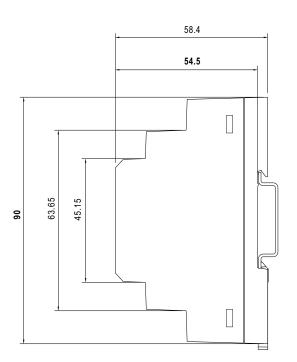


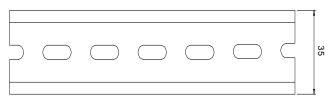


■ Mechanical Specification

(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/L
2	-V	4	AC/N

■ Installation Manual

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