

HDR-30 series





























Features

- · Ultra slim design with 35mm(2SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class II
- · 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
- Over voltage category Ⅲ
- · LED indicator for power on
- · 3 years warranty

Applications

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

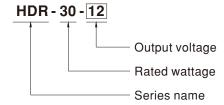
GTIN CODE

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 $^\circ$ 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-30 a very competitive power supply solution for household and industrial applications.

Model Encoding



File Name: HDR-30-SPEC 2022-03-18





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SPECIFICATION

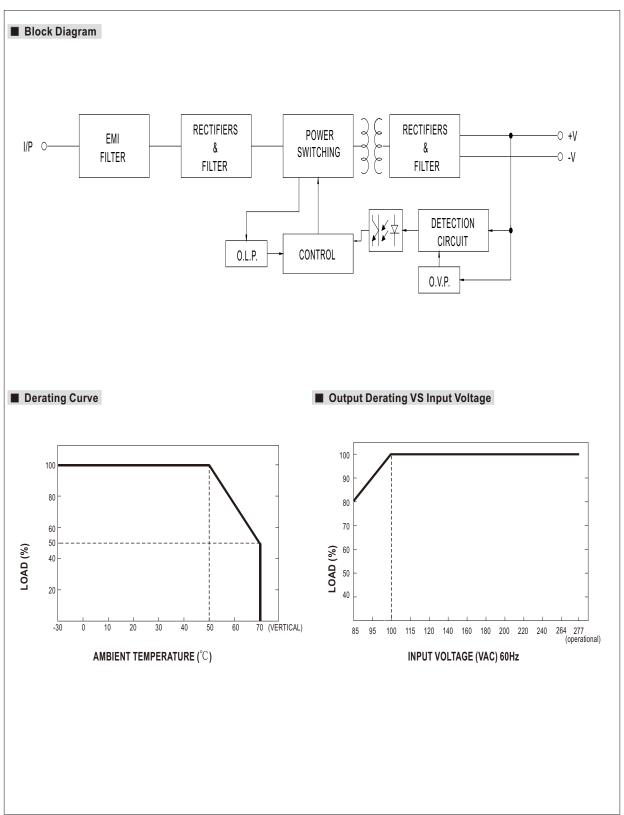
MODEL		HDR-30-5	HDR-30-12	2	HDR-30-15	HDR-30-24	HDR-30-	48	
	DC VOLTAGE	5V	12V		15V	24V	48V		
	RATED CURRENT	3A	2A		2A	1.5A	0.75A		
	CURRENT RANGE	0 ~ 3A	0 ~ 2A		0 ~ 2A	0 ~ 1.5A	0 ~ 0.75	4	
	RATED POWER	15W	24W		30W	36W	36W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p		120mVp-p	150mVp-p	240mVp-	-р	
OUTPUT	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13.8	V	13.5 ~ 18V	21.6 ~ 29V	43.2 ~ 55	5.2V	
	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, 5	ns, 50ms/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							
INPUT	EFFICIENCY (Typ.)	82%	88%		89%	89%	90%		
	AC CURRENT (Typ.)	0.88A/115VAC 0.48	A/230VAC			1 2 7 7	1 2 77		
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC							
	(),,	105 ~ 160% rated output power							
PROTECTION	OVERLOAD	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							
	OVER VOLTAGE	5.75 ~ 7.5V	15 ~ 18V		18.8 ~ 22.5V	30 ~ 36V	57.6~ 67	.2V	
		Protection type : Shut dov	wn o/p volta	ge, re-power o		100 000			
	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							
ENVIRONMENT	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6							
	OPERATING ALTITUDE								
	OVER VOLTAGE CATEGORY	2000 meters							
	OVER VOLIAGE CATEGORT	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 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	0VDC / 25°C	70% RH					
	EMC EMISSION	Parameter	S	Standard		Test Leve	el / Note		
		Conducted	В	S EN/EN5503	2(CISPR32), CNS134	138 Class B	Class B		
		Radiated	В	S EN/EN5503	2(CISPR32), CNS134	Class B	Class B		
		Harmonic Current	В	S EN/EN6100	0-3-2	Class A	Class A		
SAFETY &		Voltage Flicker	В	S EN/EN6100	0-3-3				
EMC (Note 4)	EMC IMMUNITY	BS EN/EN55024, BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3							
		Parameter	S	Standard			Test Level /Note		
		ESD		BS EN/EN6100	-	Level 3, 8	Level 3, 8KV air; Level 2, 4KV contact, criter		
		Radiated Susceptibility		BS EN/EN6100		-	Level 3, criteria A		
		EFT/Burest	E	BS EN/EN6100	0-4-4		Level 3, criteria A		
		Surge		BS EN/EN6100		-	Level 4,2KV/L-N, criteria A		
		Conducted		BS EN/EN6100			Level 3, criteria A		
		Magnetic Field BS EN/EN61000-4-8 Level 4, criteria A			in 25 nariada				
		Voltage Dips and interrup	otions E	BS EN/EN6100	00-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	3670.4K hrs min. Telcordia SR-332 (Bellcore) ; 968.1K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	35*90*54.5mm (W*H*D)							
	PACKING	0.12Kg;96pcs/12.5Kg/1.1CUFT							
NOTE	Ripple & noise are measure Tolerance: includes set up The power supply is consided directives. For guidance on (as available on http://www.tolerance.com/s.) The ambient temperature description.	res NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. iise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. iincludes set up tolerance, line regulation and load regulation. supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC for guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." e on http://www.meanwell.com) It 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) tolity Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							

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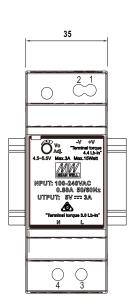


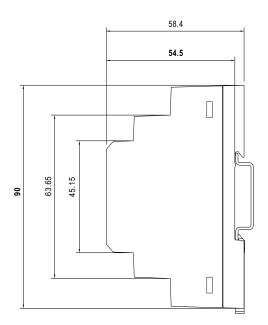


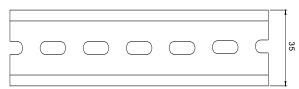
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■ Mechanical Specification

(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

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