

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 ${\rm I\hspace{-0.5mm}I}$
- 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

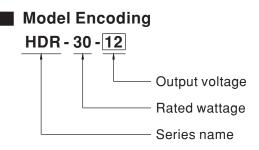
- Household control system
- Building automation
- Industrial control system
- Factory automation
- Electro-mechanical apparatus

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.





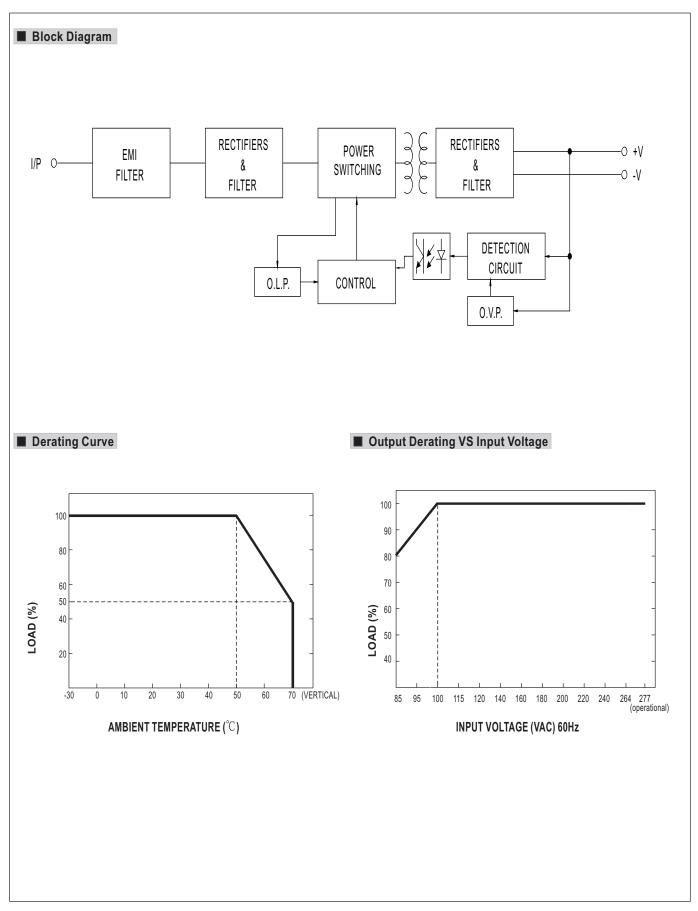
SPECIFICATION

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	-	120mVp-	n	120mVp-p	150mVp-p	240mVp-p			
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13		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%			
		±1.0%	±1.0%		±1.0%	±1.0%	±1.0%			
	SETUP, RISE TIME	500ms, 50ms/230VAC		, 50ms/115VAC a						
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms/115VAC at full load								
INPUT PROTECTION	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	82%	88%		89%	89%	90%			
	AC CURRENT (Typ.)			<u>.</u>	00 /0	0070	0070			
	INRUSH CURRENT (Typ.)	0.88A/115VAC 0.48A/230VAC COLD START 25A/115VAC 45A/230VAC								
		105 ~ 160% rated output power								
	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			
						00 001				
	WORKING TEMP.	Protection type : Shut down o/p voltage, re-power on to recover -30 ~ +70°C (Refer to "Derating Curve")								
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±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									
	OVER VOLTAGE CATEGORY	2000 meters 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	OVDC / 25	°C / 70% RH						
						Test Level / No	ote			
	EMC EMISSION	Conducted		BS EN/EN55032(CISPR32), CNS15936		Class B	Class B			
		Radiated		BS EN/EN55032(CISPR32), CNS15936		Class B	Class B			
SAFETY & EMC (Note 4)		Harmonic Current		BS EN/EN61000-3-2		Class A				
		Voltage Flicker BS EN/EN61000-3-3								
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3								
				Standard		Test Level /Note				
		ESD		BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria				
				BS EN/EN61000-4-3			Level 3, criteria A			
					BS EN/EN61000-4-4		Level 3, criteria A Level 4,2KV/L-N, criteria A			
		Surge		BS EN/EN61000-4-5 BS EN/EN61000-4-6		Level 4,2KV/L-N, criteria A Level 3, criteria A				
				BS EN/EN61000-4-8		Level 4, criteria A				
		Voltage Dips and interrup	tions	BS EN/EN61000-4-11		 >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	0.13Kg;96pcs/14.2Kg/1.04CUFT								
NOTE	 Ripple & noise are measure Tolerance : includes set up The power supply is conside directives. For guidance on (as available on https://www The ambient temperature de 	cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. up tolerance, line regulation and load regulation. sidered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC on how to perform these EMC tests, please refer to "EMI testing of component power supplies." www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) e derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) ner : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								



30W Ultra Slim Step Shape DIN Rail

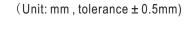
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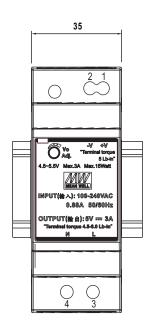


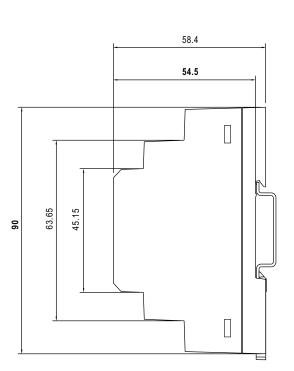


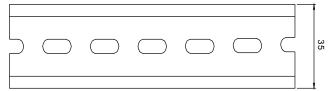
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Mechanical Specification









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

Terminal Pin No. Assignment

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

Installation Manual

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