































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
- Over voltage category III
- · LED indicator for power on
- 3 years warranty

Applications

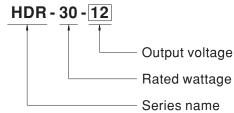
- · Household control system
- Building automation
- · Industrial control system
- Factory automation
- · Electro-mechanical apparatus

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 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, EN61558-2-16) make HDR-30 a very competitive power supply solution for household and industrial applications.

Model Encoding

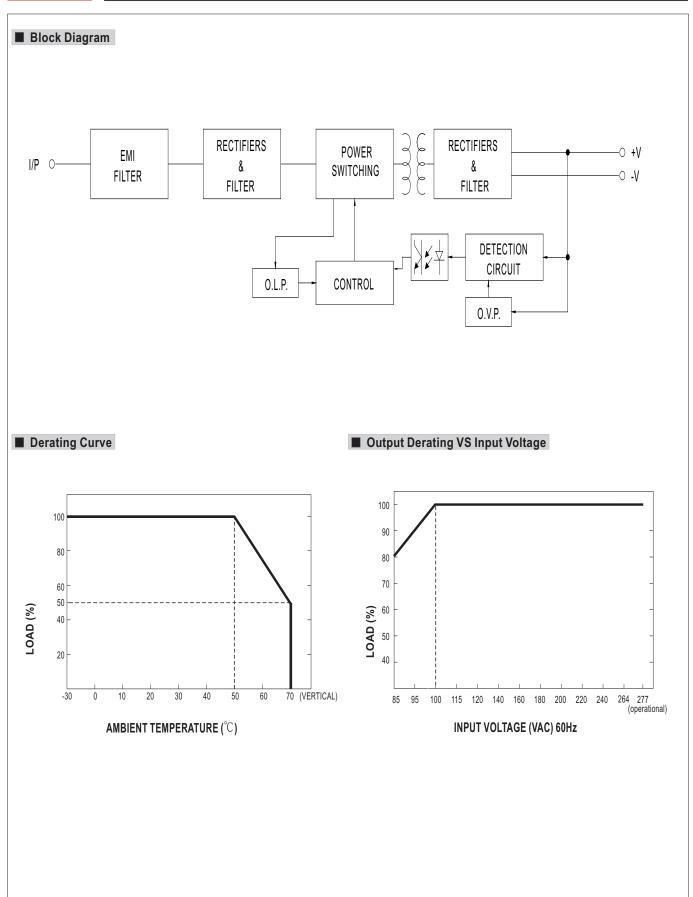


30W Ultra Slim Step Shape DIN Rail

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		5VAC 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.)			0070	0070	3070	
	INRUSH CURRENT (Typ.)	0.88A/115VAC 0.48A/230VAC					
PROTECTION	mitoon ooratem (13p.)	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 00V	01.0 01.24	
	WORKING TEMP.	Protection type : Shut down o/p voltage, re-power on to recover -30 ~ +70°C (Refer to "Derating Curve")					
ENVIRONMENT	WORKING TEMP. WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	•					
	VIBRATION	$\pm 0.03\%$ °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 OVER VOLTAGE CATEGORY	2000 meters					
	SAFETY STANDARDS	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters UL62368-1, UL508, TUV EN61558-2-16, IEC62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN62368-1					
	WITHSTAND VOLTAGE						
		I/P-O/P:4KVAC					
	ISOLATION RESISTANCE	/P-0/P:100M Ohms / 500VDC / 25°C / 70% RH Parameter Standard Test Level / Note					
	EMC EMISSION	Parameter Conducted		2(CISPR32), CNS13438	Class B	le .	
		Radiated		2(CISPR32), CNS13438	Class B		
		Harmonic Current	EN61000	,	Class A		
SAFETY & EMC (Note 4)		Voltage Flicker	EN61000				
		EN55024, EN55035, EN61000-6-2, EN61204-3					
	EMC IMMUNITY	Parameter	Standar		Test Level /No	te	
		ESD	EN6100	0-4-2	Level 3, 8KV a	r; Level 2, 4KV contact, criteria A	
		Radiated Susceptibility	EN6100	0-4-3	Level 3, criteria A		
		EFT/Burest	EN6100	0-4-4	Level 3, criteria A		
		Surge	EN6100	0-4-5	Level 4,2KV/L-N, criteria A		
		Conducted	EN6100	0-4-6	Level 3, criteria A		
		Magnetic Field	EN6100	0-4-8	Level 4, criteria A		
		Voltage Dips and interrup	tions EN6100	0-4-11		5 periods, 30% dip 25 periods,	
	MTBF	968.1K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	35*90*54.5mm (W*H*D)					
	PACKING	0.12Kg;96pcs/12.5Kg/1.1CUFT					
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 http://www. The ambient temperature default	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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 http://www.meanwell.com) 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					

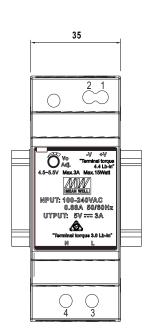


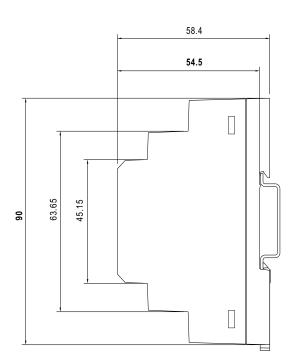


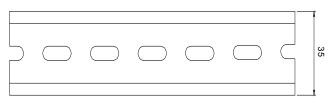


■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







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