



30W Ultra Slim Step Shape DIN Rail

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

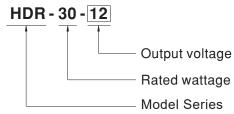
- Household control system
- Building automation
- · Industrial control system
- Factory automation
- · Electro-mechanical apparatus

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 (IEC60950-1, UL508, UL60950-1, EN61558-2-16) make HDR-30 a very competitive power supply solution for household and industrial applications.

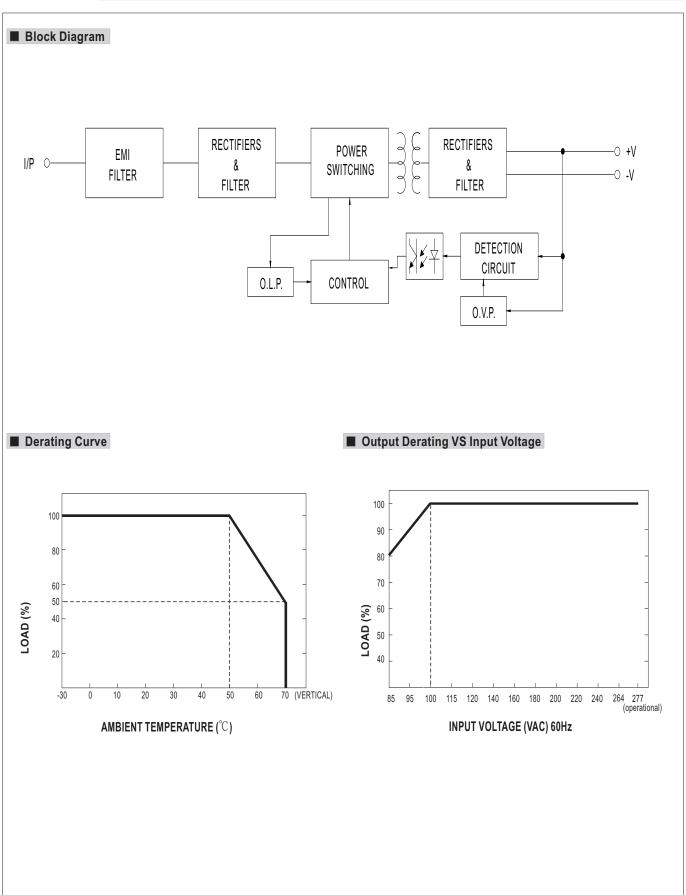
Model Encoding





SPECIFIC	ATION					
MODEL			HDR-30-12			
	DC VOLTAGE		12V			
	RATED CURRENT	+	2A			
	CURRENT RANGE	+	0 ~ 2A			
	RATED POWER	+	24W			
OUTPUT	-	+				
	RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE	+	120mVp-p 10.8 ~ 13.8V			
		+				
	VOLTAGE TOLERANCE Note.3	+	±1.0%			
	LINE REGULATION	+	±1.0%			
	LOAD REGULATION		±1.0%			
	SETUP, RISE TIME	500ms, 50ms/230VAC	500ms, 50ms/115VAC a	t 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.)		88%			
	AC CURRENT (Typ.)	0.88A/115VAC 0.48A	88A/115VAC 0.48A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC				
PROTECTION	OVERLOAD	105 ~ 160% rated output power				
		Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed				
		Constant current limiting w	rithin 50% ~100% rate	d output voltage, reco	vers automatically after fault condition is removed	
			15 ~ 18V			
	OVER VOLTAGE	Protection type : Shut dow	n o/p voltage, re-power or	to recover		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-conden	sing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	$\pm 0.03\%^{\circ}$ 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				
	SAFETY STANDARDS	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950-1				
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH				
	IOOLATION REGIOTAROE	Parameter	Standard		Test Level / Note	
	EMC EMISSION	Conducted	EN55032(CISPF	232) CNS13438	Class B	
		Radiated	EN55032(CISPF		Class B	
		Harmonic Current	EN61000-3-2	,,	Class A	
SAFETY & EMC (Note 4)		Voltage Flicker	EN61000-3-3			
	EMC IMMUNITY	EN55024, EN55035, EN6				
		Parameter	Standard		Test Level /Note	
		ESD	EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria A	
		Radiated Susceptibility	EN61000-4-3		Level 3, criteria A	
		EFT/Burest	EN61000-4-4		Level 3, criteria A	
		Surge	EN61000-4-5		Level 4,2KV/L-N, criteria A	
		Conducted	EN61000-4-6		Level 3, criteria A	
		Magnetic Field	EN61000-4-8		Level 4, criteria A	
		Voltage Dips and interrupti	ons EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
OTHERS	MTBF	968.1K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	35*90*54.5mm (W*H*D)				
	PACKING	0.12Kg;96pcs/12.5Kg/1.04CUFT				
NOTE	Ripple & noise are measure Tolerance: includes set up The power supply is considdirectives. For guidance on (as available on http://www.	Il 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 0.1 \(\mu f \) & 47 \(\mu f \) parallel capacitor. Olerance: 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 irectives. 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 the models for operating altitude higher than 2000m(6500ft).				

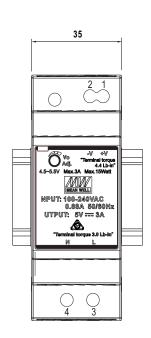


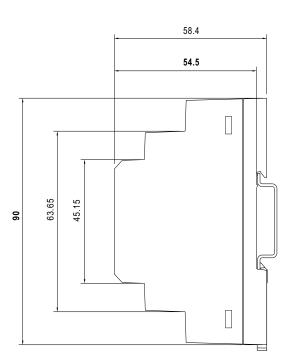


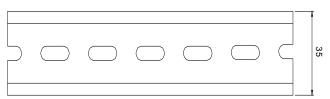


■ Mechanical Specification

(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