

























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
- · LED indicator for power on
- · 3 years warranty

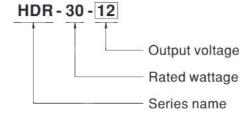
Applications

- · 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. It is equipped with constant current mode for overload protection, fitting various inductive or capacitive applications. 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





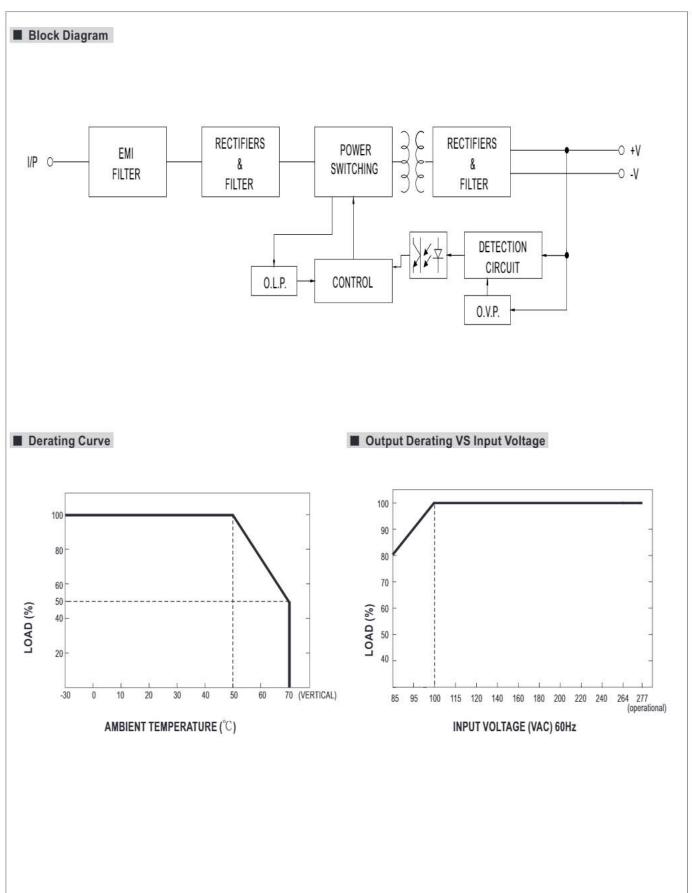
30W Ultra Slim Step Shape DIN Rail

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		±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						
	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)						
	FREQUENCY RANGE	47 ~ 63Hz	1	T	T	Tare		
NPUT	EFFICIENCY (Typ.)	82%	88%	89%	89%	90%		
	AC CURRENT (Typ.)	0.88A/115VAC						
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC						
	OVERLOAD Note.4	105 ~ 160% rated output power						
PROTECTION		Protection type : Consta	ant current limiting, re	covers 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 down o/p voltage, re-power on to recover						
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	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	2000 meters						
	SAFETY STANDARDS	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1 approved; Design refer to EN50178, TUV EN60950-1						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
SAFETY &		Parameter	Standard		Test Level / No	te		
	EMC EMISSION	Conducted		(CISPR32)	Class B			
		Radiated		(CISPR32)	Class B			
		Harmonic Current						
		Voltage Flicker EN61000-3-3						
EMC	EMC IMMUNITY	EN55024, EN55035, EN61000-6-2, EN61204-3						
(Note 5)		Parameter	Standard		Test Level /No	te		
		ESD	EN61000	-4-2	Level 3, 8KV a	Level 3, 8KV air; Level 2, 4KV contact, criteria		
		Radiated Susceptibility	EN61000	1-4-3	Level 3, criteria A			
		EFT/Burest	EN61000	1-4-4	Level 3, criteria A			
		Surge	EN61000)-4-5	Level 4,2KV/L-N, criteria A			
		Conducted	EN61000	1-4-6	Level 3, criteria A			
		Magnetic Field	EN61000)-4-8	Level 4, criteria			
		Voltage Dips and interru	uptions EN61000)-4-11		5 periods, 30% dip 25 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						

- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- Constant current limiting operation within 50% ~100% rated output voltage; protection type for short ciruit is hiccup mode, it will recover automatically after fault condition is removed.
- 5.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)

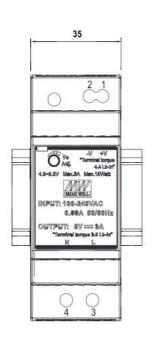


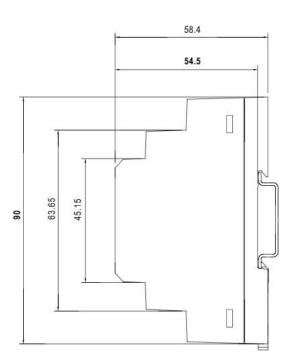


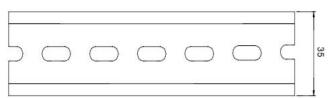


Mechanical Specification

(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