

HDR-60

series



































Features

- Ultra slim design with 52.5mm(3SU) 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

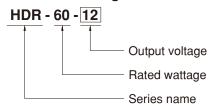
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

HDR-60 is one economical ultra slim 60W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 52.5mm(3SU) 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-60 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 91%, 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-60 a very competitive power supply solution for household and industrial applications.

■ Model Encoding







HDR-60 series

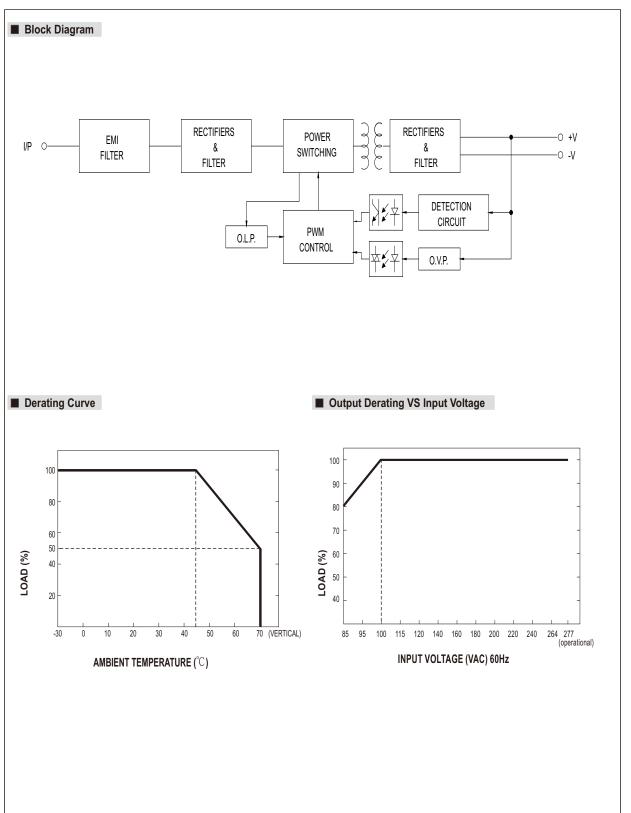
SPECIFICATION

MODEL		HDR-60-5	HDR-60-1	2	HDR-60-15	HDR-60-24	HDR-60-48	
	DC VOLTAGE	5V	12V		15V	24V	48V	
OUTPUT	RATED CURRENT	6.5A	4.5A		4A	2.5A	1.25A	
	CURRENT RANGE	0 ~ 6.5A	0 ~ 4.5A		0 ~ 4A	0 ~ 2.5A	0 ~ 1.25A	
	RATED POWER	32.5W	54W		60W	60W	60W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p)	120mVp-p	150mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	5.0 ~ 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 500ms, 50ms/115VAC 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						
		85%	000/	88% 89% 90% 91%				
NFOI	EFFICIENCY (Typ.)				09 /0	90 /0	91/0	
	AC CURRENT (Typ.)	1.2A/115VAC 0.8A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC						
	OVERLOAD	105 ~ 160% rated output power						
		Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed						
PROTECTION			_				ter fault condition is removed	
	OVER VOLTAGE	5.75 ~ 6.75V	14.2 ~ 16.2V 18.8 ~ 22.5V 30 ~ 36V 56.5		56.5 ~ 64.8V			
	OVER VOLINGE	Protection type : Shut down o/p voltage, re-power on to recover						
	WORKING TEMP.	-30 ~ +70°C (Refer to "E	Derating Curve	e")				
	WORKING HUMIDITY	20 ~ 90% RH non-conde	ensing					
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing						
	TEMP. COEFFICIENT	$\pm 0.03\%^{\circ}\mathrm{C}$ (0 ~ 50 $^{\circ}\mathrm{C}$) 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	UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS14336-1, IS13252(Part1)/IEC60950-1 approved; Design refer to BS EN/EN62368-1						
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 50	00VDC / 25°C	2/ 70% RH				
		Parameter Standard Test Level / Note						
	EMC EMISSION	Conducted		BS EN/EN55032(CISPR32), CNS13438		Class B		
		Radiated		BS EN/EN55032(CISPR32), CNS13438		Class B		
				, , , ,				
		Harmonic Current		BS EN/EN61000-3-2		Class A		
CAEETV 0		Voltage Flicker		BS EN/EN61000-3-3				
SAFETY &	EMC IMMUNITY	BS EN/EN55024, BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3						
EMC (Note 4)		Parameter		Standard		Test Level /Note		
		ESD		BS EN/EN6100	0-4-2	Level 3, 8KV air; Level 2, 4KV contact, criteria		
		Radiated Susceptibility		BS EN/EN6100	0-4-3	Level 3, criteria A		
		EFT/Burest		BS EN/EN61000-4-4		Level 3, criteria A		
		Surge		BS EN/EN61000-4-5		Level 4,2KV/L-N, criteria A		
		Conducted		BS EN/EN6100	0-4-6	Level 3, criteria A		
		Magnetic Field	BS EN/EN610		0-4-8 Level 4, criteria A		a A	
		Voltage Dips and interru	uptions	ns BS EN/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	3524.8K hrs min. Telcordia SR-332 (Bellcore) ; 927.6K hrs min. MIL-HDBK-217F (25° C)						
	DIMENSION	52.5*90*54.5mm (W*H*D)						
	PACKING	190g;60pcs/12.4Kg/0.97CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets 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) 5. 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(6500 % Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							





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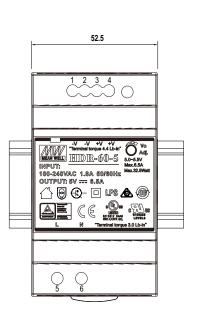


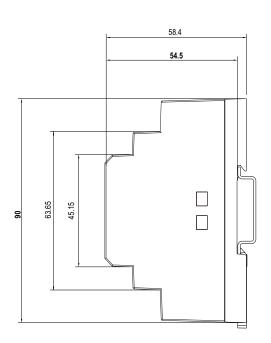


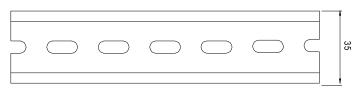
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■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







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

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1,2	-V	5	AC/L
3,4	+V	6	AC/N

■ Installation Manual

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





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