

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- · Ultra slim design with 52.5mm(3SU) 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

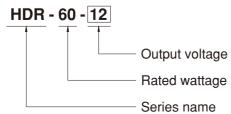
- · Household control system
- · Building automation
- Industrial control system
- Factory automation
- Electro-mechanical apparatus

Description

HDR-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 EN61000-3-2, the norm the European Union regulates for harmonic current.

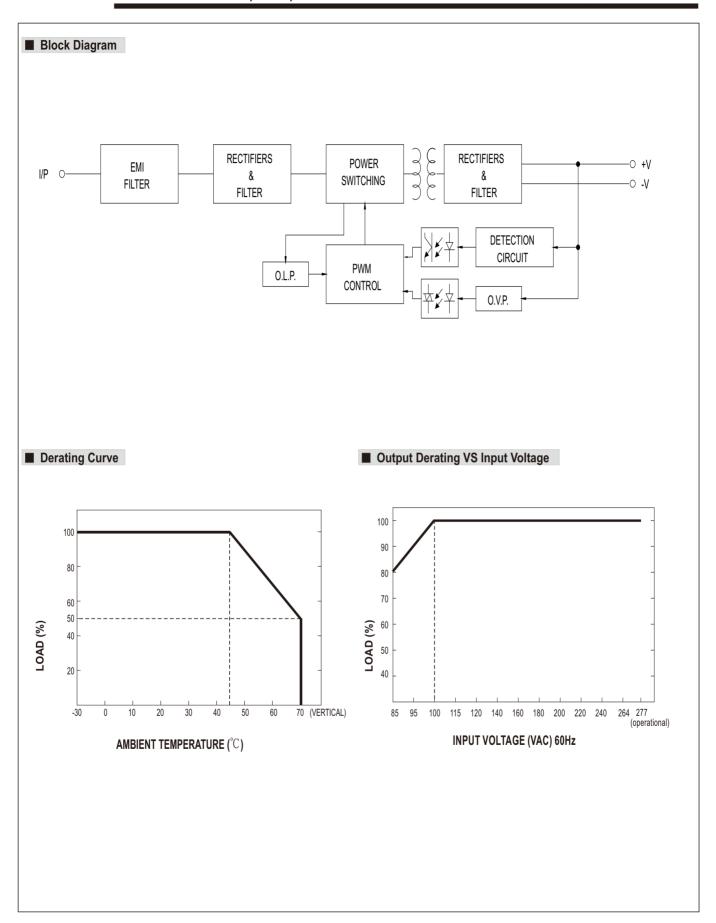
HDR-60 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 91%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. It is equipped with constant current mode for overload protection, 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-60 a very competitive power supply solution for household and industrial applications.

Model Encoding



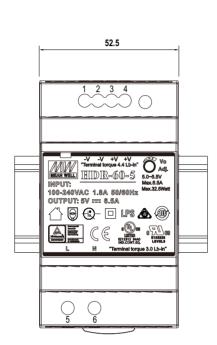
SPECIFICATION

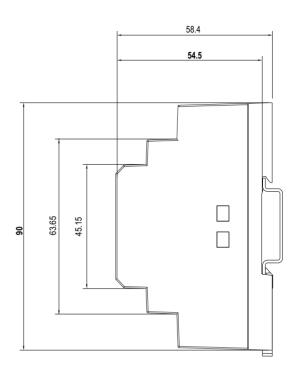
MODEL		HDR-60-5	HDR-60-12	HDR-60-15	HDR-60-24	HDR-60-48	
	DC VOLTAGE	5V	12V	15V	24V	48V	
	RATED CURRENT	6.5A	4.5A	4A	2.5A	1.25A	
	CURRENT RANGE	0 ~ 6.5A	0 ~ 4.5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.25A	
	RATED POWER	32.5W	54W	60W	60W	60W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p	
DUTPUT	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 a	t 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					
NPUT	EFFICIENCY (Typ.)	85%	88%	89%	90%	91%	
	AC CURRENT (Typ.)		30VAC	1 //	1 2 7 7	1	
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC					
	(31)	105 ~ 160% rated output power					
	OVERLOAD Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed					
PROTECTION		5.75 ~ 6.75V	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5 ~ 64.8V	
	OVER VOLTAGE		/n o/p voltage, re-power on				
	WORKING TEMP.	-30 ~ +70°C (Refer to "De	· · · · · ·				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
III III III III III III III III III II	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	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	UL00950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP 1C 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950-1					
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
	ISOLATION RESISTANCE	Parameter	Standard		Test Level / Not	to .	
	EMC EMISSION	Conducted		PR32), CNS13438	Class B		
		Radiated	,	PR32), CNS13438	Class B		
		Harmonic Current	EN61000-3-2	- N32), GN3 13430	Class A		
SAFETY &					Class A		
		Voltage Flicker					
EMC		EN55024, EN55035, EN61000-6-2, EN61204-3 Parameter Standard Test Level /Note					
(Note 5)						Level 3, 8KV air; Level 2, 4KV contact, criteria	
		ESD		EN61000-4-2			
		Radiated Susceptibility		EN61000-4-3		Level 3, criteria A	
	EMC IMMUNITY	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 interruptions EN61000-4-11 >95% dip 0. 5 periods, 30% dip 25 periods >95% interruptions 250 periods					
OTHERS	MTBF	927.6K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	52.5*90*54.5mm (W*H*D)					
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Constant current limiting operautomatically after fault condit The power supply is conside	ed at 20MHz of bandwidth tolerance, line regulation ation within 50% ~100% ration is removed.	ed at 230VAC input, rate in by using a 12" twisted p and load regulation. red output voltage; protection	pair-wire terminated with on type for short ciruit is	h a 0.1μf & 47μf paralle	er	
	 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(6500m) 						

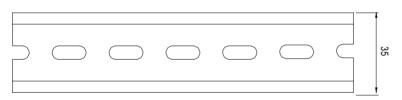


■ Mechanical Specification

(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