

Industrial DIN rail power supply

product specification

HDR-60

Product Category:60W Single Output Din Rail switching Power Supply

Zhitao Group

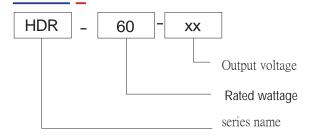
ZHITAO GROUP

- Version No.:ZTAO3.0
- Release date: May 1st, 2025

Product Overview

HDR-60-XX series products for a 60W self-cooling rail industrial power supply, the whole series of products with a wide voltage AC and DC input, output voltage including 5V/12V/15V/24V/48V, etc., can be adapted to different Load application requirements to meet the needs of most industrial applications, with high conversion efficiency, compact housing design, good heat dissipation, as well as a full range of protection, to ensure the high reliability and stability of this series of products.

Model Encoding



Product Features

- Ultra-slim design: Width 52.5mm (3SU)
- Internation al full range AC input
- Rail-mounted: TS35/7 or 15
- with no-load power
- consumption <0.7W
- Protection type: short circuit / overload / overcurrent protection
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 3-year warranty

Areas of Application

L N "Terminal torque 3.0 Lb-in"

MACCO I

HDR-60-2



Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

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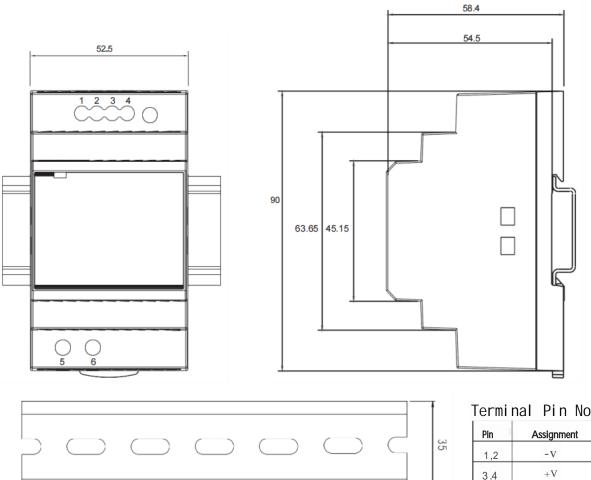
Electrical Specifications

	Model	HDR-60-5	HDR-60-12	HDR-60-15	HDR-60-24	HDR-60-36	HDR-60-48		
Output	DC output voltage	5V	12V	15V	24V	36V	48V		
	Rated current	6.5A	4.5A	4A	2.5A	1.7A	1.25A		
	Current range	0~6.5A	0~4.5A	0~4A	0~2.5A	0~1.7A	0~1.25A		
	Rated power	32.5W	54W	60W	60W	61.2W	60W		
	Ripple & Noise (Max)	80mVp-p	80mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p		
	voltage adjustment range	4.5~5.5V	10.2~13.8V	13.5~16.5V	21.6~26.4V	32.4~39.6V	43.2~52.8V		
	voltage accuracy	±1%	±1%	±1%	±1%	±1%	±1%		
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	start-up & rise time	500ms,50ms/230VAC 1000ms,50ms/115VAC(at full load)							
	Holding time	30mS/230VAC; 15mS/115VAC (at full load)							
	Input Voltage	88~264VAC	124~370VDC						
	Input frequency	50~60HZ							
Input	Efficiency	85%	88%	89%	90%	90%	91%		
	Input current	1.2A/115VA C 0.8A/230VAC							
	Leakage current	< 1mA/240VAC							
Protec tion		125~150% of rated powe	er						
	overload protection	Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions							
		5.9~7.3V	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V		
	Overvoltage protection	Protect mode: shut down the output voltage, restart to recover							
	Operating temperature	-20°C ~+65°C							
Enviro	Operating humidity	20~90%RH No condensation							
nment	Storage	-40~+80°C 10~95%RH, no condensation							
	temperature/humidity								
	Vibration-resistant	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each							
ecurity	pressure resistance	Input to Output :1.5KVAC							
	Insulation impedance	Input to Output :100 Ohms/500VDC/25°C /70%RH							
Others	Product dimensions	52.5*90*54.5mm (W*H*D)							
	Packaging	0.08kg/pcs							
	Remarks	 Ripple and noise voltages bandwidth. Accuracy: Includes settin Linear Adjustment Ratio Load Adjustment Ratio M Start-up time is measured 	g error, linear adjustment ratio Measurement Method: Test frr Jeasurement Method: From 09 at cold start, fast and frequent	om low voltage to high voltage a	μ and 47 μ capacitors at the er t rated load use the start-up time.		e, measured at 20MHZ		

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Mechanical Specification and installation size (mm)



Ferminal Pin No.Assignment

Pin	Assignment	Pin	Assignment
1,2	- V	5	AC/L
3.4	+V	6	AC/N

EARTH			
N AC NETURAL Toque. 4Kgicm(0.4Nm) EARTH			
	Toque. 4Kgicm(0.4Nm)		
-V DC output -			
-V DC output-screw :M2.5*8.5	4N.m)		
+V DC output + Torque: 4Kgf.cn(04N.m			
+V DC output +			

rail-guided customer system installation

Rail mounting: T S 35/7.5 or TS35/15

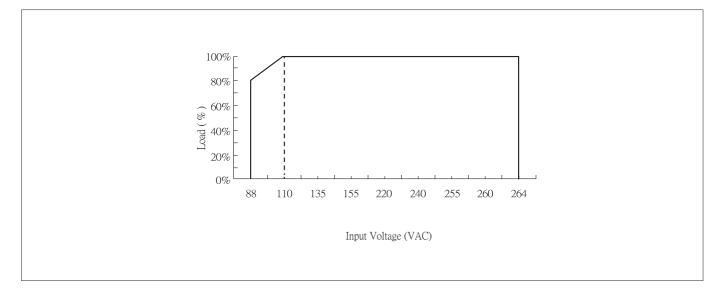
Remarks

Unit: mm [inch]; unlabelled tolerances are $\pm 0.5 [\pm 0.020]$.

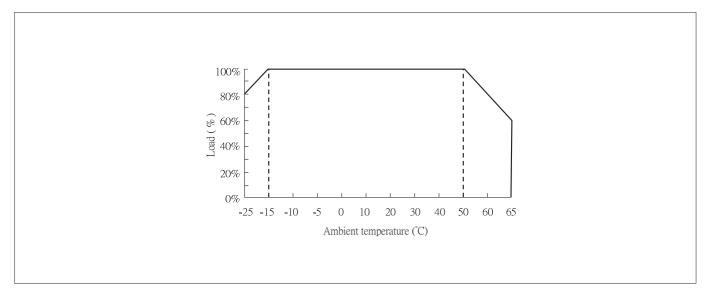


Characteristic Curve

Input Voltage VS Output Load



Ambient Temperature VS Output Load



Note:

1.If you need more detailed test data, please contact our technical support to get the application notes of the corresponding products.

2. This product is suitable for use in a natural air convection environment, if used in a closed environment, please contact our technical support staff.