DR-30

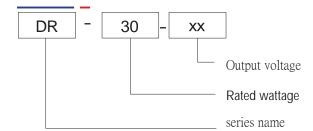
product specification

- Product Category:30W Single Output Din Rail Switching Power Supply
- Version No.:ZTAO3.0
- Release date: May 1st, 2025

Product Overview

DR-30-XX series products for a 30W self-cooling rail industrial power supply, the product has 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, good heat dissipation and a full range of protections to ensure that this series of products of high reliability and stability. High conversion efficiency, good heat dissipation and all-round protection guarantee the high reliability and stability of this series of products.

Model Encoding



product Features

- International full range AC input
- rail mounted: TS35/7 or 15 no-load power
- consumption < 0.6W
- 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

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

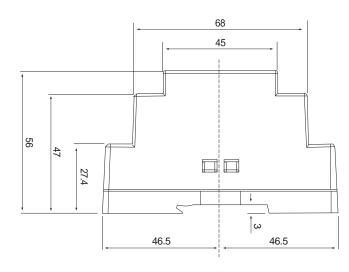


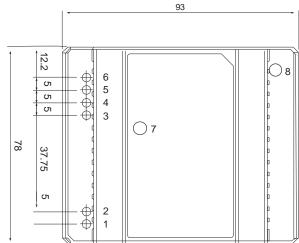
Electrical Specifications

	Model	DR-30-5	DR-30-12	DR-30-15	DR-30-24	DR-30-36	DR-30-48		
	DC output voltage	5V	12V	15V	24V	36V	48V		
	Rated current	3A	2A	2A	1.5A	1A	0.75A		
	Current range	0~3A	0~2A	0~2A	0~1.5A	0~1A	0~0.75A		
	Rated power	15W	24W	30W	36W	36W	36W		
Output	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	100ms,40ms/230VAC 100ms,40ms/115VAC(at full load)							
	Holding time	100mS/230VAC; 20ms/115VAC (at full load)							
	Input Voltage	90~264VA C 127~370 VDC							
Input	Input frequency	50~60HZ							
	Efficiency	83%	86%	86%	88.5%	88%	89%		
	Input current	0.88A/115VA C 0.48A/230VAC							
	Leakage current	< 1mA/240VAC							
	overload protection	125~150% of rated power							
Protec	overload protection	Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions							
tion	Overvoltage protection	5.9~7.3V	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V		
	Over voltage protection	Protect mode: shut down the output voltage, restart to recover							
	Operating temperature	-20°C ~ +65 °C							
Enviro nment	Operating humidity	20~90%RH No condensation							
innent	Storage temperature/humidity	-40~+80°C 10~95%RH, no condensation							
	Resistant to vibration	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each							
Coourity	pressure resistance	Input to Output: 1.5KVAC							
Security	Insulation impedance	Input to output: 100 Ohms/500VDC/25°C/70%RH							
Others	Product dimensions	35*90*54.5mm(W*H*D)							
Others	Packaging	0.08kg/pcs							
	Remarks	 All parameters are measured at 230VAC input, rated load and 25°C when not otherwise specified. Ripple and noise voltages were measured on a 20MHz bandwidth oscilloscope with 0.1 μ and 47 μ capacitors at the end of a 12-inch twisted pair cable, measured at 20MHZ bandwidth. Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio. Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time. When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres 							



Appearance and Installation Dimensions (mm)





Pinout	Function			
L	AC LINE	Screw:M2.5*8.5		
N	AC NETURAL	Torque:4Kgf.cn(0.4N.m)		
₩	EARTH			
-V	DC output -			
-V	DC output -	Screw:M2.5*8.5		
+V	DC output +	Torque:4Kgf.cn(0.4N.m)		
+V	DC output +			

Terminal Pin Definition

pin number	Pin Function	pin number	Pin Function
1	AC/N	5,6	DC OUTPUT-V
2	AC/L	7	LED
3,4	DC OUTPUT+V	8	+V ADJ.



rail-guided customer system installation

Rail mounting: TS35/7.5 or TS35/15

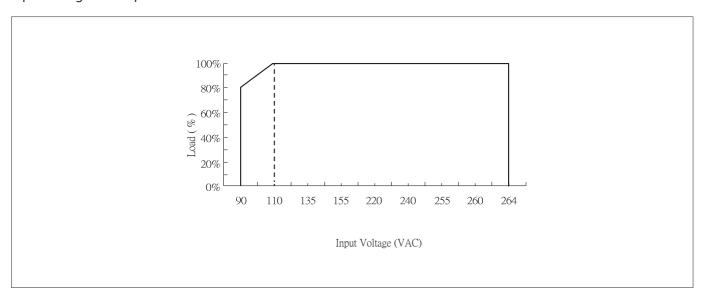
Remarks:

Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

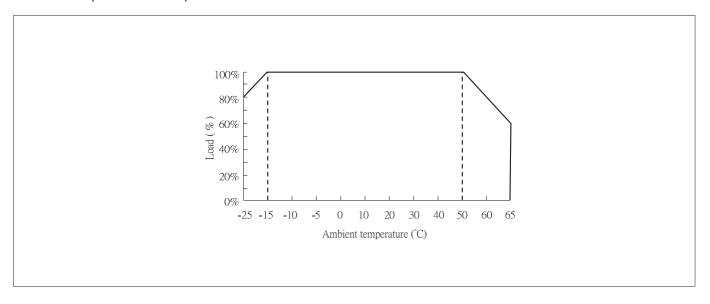


Characteristic Curve

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.