

Industrial DIN-Rail Power Supplies

product specification

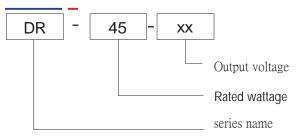


- Product Category:45W Single Output Din Rail Switching Power Supply
- Version No.:ZTAO3.0
- Release date: May 1st, 2025

### Product Overview

DR-45-XX series products for a 45W 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)

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### Zhitao Power Supply - is not just a full power supply

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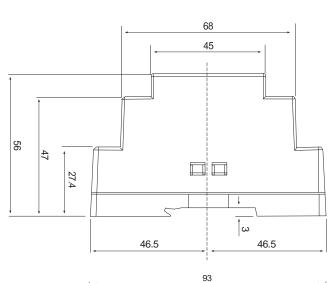
### **Electrical Specifications**

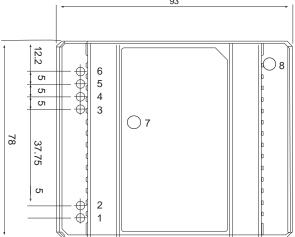
	Model	DR-45-5	DR-45-12	DR-45-15	DR-45-24	DR-45-36	DR-45-48		
	DC output voltage	5V	12V	15V	24V	36V	48V		
Output	Rated current	5A	3.5A	2.8A	2A	1.25A	1A		
	Current range	0~5A	0~3.5A	0~2.8A	0~2A	0~1.25A	0~1A		
	Rated power	25W	42W	42W	48W	45W	48W		
	Ripple & Noise (Max)	80mVp-p	80mVp-p	100mVp-p	100mVp-p	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 150ms,40ms/115VAC (at full load)							
	Holding time	100mS/230VAC; 20ms/115VAC (at full load)							
	Input Voltage	90~264VAC 127~370VDC							
Input	Input frequency	50~60HZ							
mpat	Efficiency	83%	86%	86%	88.5%	88%	89%		
	Input current	1.5A/115VAC 0.75A/230VAC							
	Leakage current	< 1mA/240VAC 0.75A/250VAC							
	Loundgo ourroint	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           Protect mode: cbut down the output voltage: restart to recover							
	Operating temperature	Protect mode: shut down the output voltage, restart to recover							
Enviro	Operating humidity	-20°C ~+65°C							
nment	Storage	20-90%RH No condensation							
	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							
	pressure resistance	Input to Output: 1.5KVAC							
ecurity	Insulation impedance	Input to output: 100 Ohms/500VDC/25°C/70%RH							
	Product dimensions	78*93*56mm (W*H*D)							
Others	Packaging	0.25kg/pcs							
	Remarks	<ol> <li>Ripple and noise voltage bandwidth.</li> <li>Accuracy: Includes settin</li> <li>Linear Adjustment Ratio</li> </ol>	s were measured on a 20MHz b	m low voltage to high voltage at	$\iota$ and 47 $\mu$ capacitors at the end	d of a 12-inch twisted pair cable	r, measured at 20MHZ		
	i windi Ko	<ul><li>6. Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time.</li><li>7. When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres</li></ul>							

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Appearance and Installation Dimensions (mm)





Pinout	Function	
L	ACLINE	Screw:M2.5*8.5
Ν	AC NETURAL	Torque:4Kgf.cn( 0.4N.m)
ŧ	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

pir	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.

		$\bigcirc$		35

rail-guided customer system installation

Rail mounting: TS35/7.5 or TS35/15

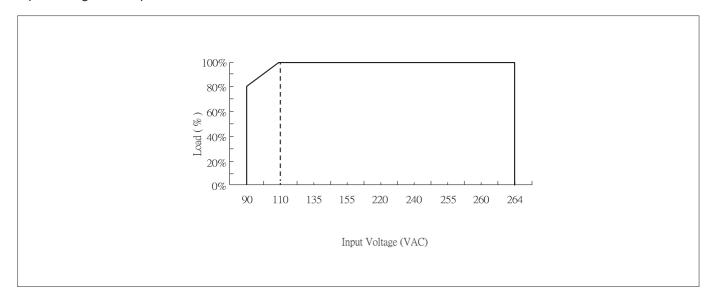
Remarks:

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

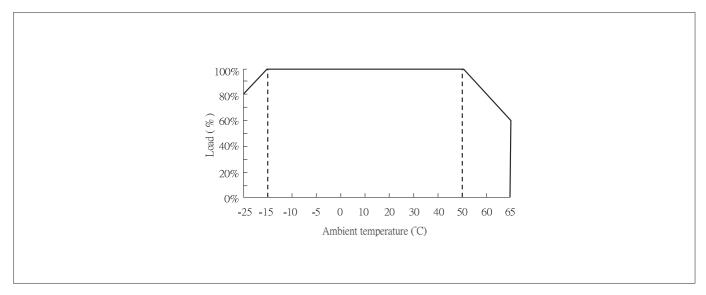
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# Characteristic Curve



### 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.