

High Power DC Power Supply

High Power DC Power Supply TP-D series

Introduction

The TP-D series are high power output Switching DC power supply. The regulation mode of the TP-D series adopts IGBT module, which facilitates high efficiency, high accuracy and high stability.

The TP-D series can be made according to customer request, with output voltage up to 2000V and output current up to 3000A. Over Voltage Protection, Over Current Protection, Over Temperature Protection and Over Load Protection keep the TP-D series and their load safe from unexpected conditions. For more complicated applications, the TP-D series are available with many optional functions: RS-232/485 interface, remote sensing, remote ON/OFF control, timer switch, and square waveform output. TP-D series is an ideal solution for various industrial applications.

Features

- ✓ Max. output voltage 2000V, Max. output current 3000A
- ✓ Applying IGBT module and 19-inch standard size
- ✓ 4 1/2 digits LED display for voltage and current
- ✓ Constant voltage and constant current operations, auto CV/CC switch
- ✓ Front panel operation: preset voltage and current, output ON/OFF
- ✓ Multiple protections: OVP, OCP, OTP and OLP
- ✓ Optional function
 - Communication: RS-232 or RS-485 interface
 - Remote control: 0-5V, 0-10V or 4-20mA signal to control output voltage and current
 - Remote Sensing: to compensate the voltage drop
 - Remote ON/OFF control: using a potentiometer to control the output
 - Timer Switch: to turn on or off the output as per preset time
 - Square Waveform Output: to output user-defined square waveform according to preset time and cycles
 - Reverse polarity protection: to protect power supply from damage by reverse current from EUT
- ✓ Customized specifications and functions acceptable

Product photo



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Specifications

Output capacity	At request
Working mode	IGBT
Constant Voltage Operation	
Output voltage	DC 0~100% full range adjustable
Line regulation	≤0.2%+2 digits
Load regulation	≤0.3%+2 digits
Ripple & Noise	≤0.3%+10mVrms
Constant Current Operation	
Output Current	DC 0~100% full range adjustable
Line regulation	≤0.2%+2 digits
Load regulation	≤0.3%+2 digits
Ripple & Noise	≤0.5%+10mArms
Display	
Voltmeter	4 1/2 digits LED display
Ammeter	4 1/2 digits LED display
Voltage resolution	00.00V-19.99V; 000.0V-199.9V; 0000V-1999V
Current resolution	00.00A-19.99A; 000.0A-199.9A; 0000A-1999A
Accuracy	±(1% reading + 1 digit)
Protection	
Over Voltage Protection (O.V.P.)	Built-in OVP protection with limit of 105% rated voltage. The output will be shut down when OVP is activated.
Over Current Protection (O.C.P.)	Over load, short circuit and output current limit
Over Temperature Protection (O.T.P.)	Built-in OTP protection with heatsink temperature limit of 85°C±5%. The output will be shut down when OTP is activated.
General	
Cooling method	Cooling fan
Operating environment	0°C~40°C, 10%~80%RH
Storage environment	-20°C~70°C, 10%~90%RH
Power source	<10KW: single phase AC220V±10% ≥10KW: three phase AC380V±10%
Input module	Power socket or terminal block

Selection guide

Model	Output voltage	Output current	Output capacity	Weight (kg)	Dimension (WxHxD, mm)
TP10-10HD	0~10V	0~1000A	10KW	70	425x320x650
TP15-1HD	0~15V	0~100A	1.5KW	18	425x100x450
TP15-120D	0~15V	0~120A	1.8KW	18	425x100x450
TP15-2HD	0~15V	0~200A	3KW	24	425x100x450
TP15-3HD	0~15V	0~300A	4.5KW	30	482x132x650
TP15-4HD	0~15V	0~400A	6KW	35	425x150x650
TP15-6HD	0~15V	0~600A	9KW	60	425x320x650
TP15-8HD	0~15V	0~800A	12KW	80	425x320x650
TP30-1HD	0~30V	0~100A	3KW	24	425x100x450
TP30-2HD	0~30V	0~200A	6KW	35	425x150x650
TP30-3HD	0~30V	0~300A	9KW	60	425x320x650
TP30-4HD	0~30V	0~400A	12KW	80	425x320x650
TP30-5HD	0~30V	0~500A	15KW	100	425x600x650
TP30-10HD	0~30V	0~1000A	30KW	150	500x80x650
TP50-1HD	0~50V	0~100A	5KW	30	482x132x650
TP50-150D	0~50V	0~150A	7.5KW	40	425x150x650
TP50-2HD	0~50V	0~200A	10KW	70	425x320x650
TP50-250D	0~50V	0~250A	12.5KW	80	425x320x650
TP50-3HD	0~50V	0~300A	15KW	100	425x600x650
TP50-5HD	0~50V	0~500A	25KW	100	425x600x650
TP60-1HD	0~60V	0~100A	6KW	35	425x150x650
TP60-150D	0~60V	0~150A	9KW	60	425x320x650
TP60-2HD	0~60V	0~200A	12KW	80	425x320x650
TP60-3HD	0~60V	0~300A	18KW	100	425x600x650
TP80-60D	0~80V	0~60A	4.8KW	30	482x132x650
TP1H-50D	0~100V	0~50A	5KW	30	482x132x650
TP1H-60D	0~100V	0~60A	6KW	35	425x150x650
TP1H-1HD	0~100V	0~100A	10KW	70	425x320x650
TP1H-150D	0~100V	0~150A	15KW	100	425x600x650
TP150-30D	0~150V	0~30A	4.5KW	30	482x132x650
TP150-50D	0~150V	0~50A	7.5KW	40	425x150x650
TP150-40D	0~150V	0~40A	6KW	35	425x150x650
TP150-60D	0~150V	0~60A	9KW	60	425x320x650
TP150-80D	0~150V	0~80A	12KW	80	425x320x650
TP150-1HD	0~150V	0~100A	15KW	100	425x600x650
TP150-150D	0~150V	0~150A	22.5KW	100	425x600x650

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TP2H-10D	0~200V	0~10A	2KW	20	425x100x450
TP2H-20D	0~200V	0~20A	4KW	28	482x132x650
TP2H-30D	0~200V	0~30A	6KW	35	425x150x650
TP2H-50D	0~200V	0~50A	10KW	70	425x320x650
TP250-20D	0~250V	0~20A	5KW	30	482x132x650
TP250-30D	0~250V	0~30A	7.5KW	40	425x150x650
TP250-40D	0~250V	0~40A	10KW	70	425x320x650
TP250-50D	0~250V	0~50A	12.5KW	80	425x320x650
TP3H-5D	0~300V	0~5A	1.5KW	18	425x100x450
TP3H-10D	0~300V	0~10A	3KW	24	425x100x450
TP3H-20D	0~300V	0~20A	6KW	35	425x150x650
TP3H-30D	0~300V	0~30A	9KW	60	425x320x650
TP3H-40D	0~300V	0~40A	12KW	80	425x320x650
TP4H-5D	0~400V	0~5A	2KW	20	425x100x450
TP4H-10D	0~400V	0~10A	4KW	28	482x132x650
TP4H-30D	0~400V	0~30A	12KW	80	425x320x650
TP5H-5D	0~500V	0~5A	2.5KW	24	425x100x450
TP5H-10D	0~500V	0~10A	5KW	30	482x132x650
TP5H-50D	0~500V	0~50A	25KW	100	425x600x650
TP6H-2D	0~600V	0~2A	1.2KW	15	425x100x450
TP6H-3D	0~600V	0~3A	1.8KW	18	425x100x450
TP6H-5D	0~600V	0~5A	3KW	24	425x100x450
TP6H-10D	0~600V	0~10A	6KW	35	425x150x650
TP6H-20D	0~600V	0~20A	12KW	80	425x320x650
TP10H-1D	0~1000V	0~1A	1KW	12	425x100x450
TP10H-3D	0~1000V	0~3A	3KW	24	425x100x450
TP10H-5D	0~1000V	0~5A	5KW	30	482x132x650
TP10H-10D	0~1000V	0~10A	10KW	70	425x320x650
TP10H-20D	0~1000V	0~20A	20KW	100	425x600x650

The above models are listed for reference only.

Customer specifications are welcome.

Specifications are subject to change without prior notice.