

DC Power Supply

1kW-8kW Width-Range Programmable DC Power Supply TWD-series

Product description:

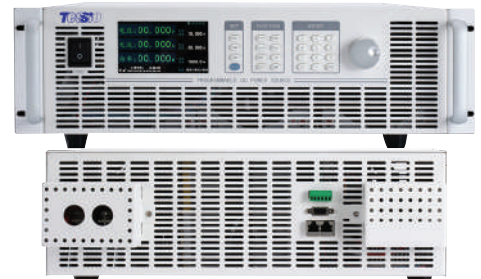
TWD-Series is width-range programmable DC power has a maximum output voltage/current of 1500V/100A with standard 2U/3U chassis for easy mounting. The product has high resolution and high precision, low ripple and low noise, high stability, high reliability and so on. This series is providing various app functions, such as function generator function, and can provide various dynamic waveforms, Up to 50 steps list function.



TWD1000-series (1kW)



TWD2000/3000-series (2kW / 3kW)



TWD6000/8000-series (6kW / 8kW)

Features

- ◆ Standard 2U/3U chassis, high power density, high precision, resolution up to 1mV/0.1mA.
- ◆ 4.3-inch high brightness TFT display screen with high display resolution.
- ◆ Constant power, with higher output voltage and current range.
- ◆ CV & CC priority, adjustable rise / fall time to meet various applications.
- ◆ Various app functions, such as function generator function, can provide various dynamic waveforms: up to 50 steps list function.
- ◆ Support scope display and visually display voltage, current and power waveform curves.
- ◆ 128 groups of application data are saved and called to facilitate multiple test switching.
- ◆ Support series / parallel connection to expand voltage / power.
- ◆ Adjustable overvoltage / overcurrent / overpower protection function, as well as undervoltage, undercurrent or short circuit protection function.
- ◆ Standard CAN, RS485 communication interface, optional dry contact / analog interface.
- ◆ Support remote voltage compensation.
- ◆ Intelligent temperature control of fan, effectively reducing noise.

Standard Accessories : • User Manual • Power cord • 6 pin terminal box • Test report

Optional Accessories :

- Analog interface • RS485 to USB module
- Test report • Rapid discharge module

Ordering Information

TWDXXX[®]-XXX[®] : Programmable DC Power Supply
Remark : XXXX[®] : Output Power rate
XXX[®] : Output Voltage rate

Specifications

Model	TWD1000/2000/3000-series		TWD6000/8000-series
Output capacity	1kW /2kW / 3kW		6kW / 8kW
DC Voltage			
Output voltage	<0.1% of rated value		
Output current	<0.05% of rated value		
Load regulation	0 ~ 100% : <0.05% of rated value		
Line regulation	±10% ΔUAC : <5ms		
Slew Rate	10 ~ 90% : <20ms ~ 60s		
Voltage Compensation	<5% rated voltage		
Ripple	<0.1% of rated value		
DC Current			
Accuracy	<0.15% of rated value+20mA		
Load Regulation 1 ~ 100%	<0.1% of rated value		
Line Regulation ±10% ΔUAC	<0.05% of rated value		
DC Power			
Accuracy	<0.3% of rated value		
General Specifications			
Protection	Over Voltage Protection, Over Current Protection, Over Power, Over temperature Protection and so on		
Insulation	AC Input to Enclosure	1500VDC	
	AC Input to DC Output	1500VDC	
	DC Output to Enclosure (PE)	Below 300V: 500V (PE) / Below 1000V: 1500V (PE) / Below 2000V: 2000V (PE)	
Digital Interface	RS485/CAN (standard), RS232/USB/LAN (optional)		
Analog Interface (Option)	0-10V/4-20mA control power supply voltage/current output; 0-10V/4-20mA readback power supply voltage/current output, Dry contact start/stop		
Operating environment	5°C~45°C, <80%RH		
Storage environment	-20°C ~ 60°C, <80%RH		
Power Input	1 Φ 220V±10%, 50/60Hz	3 Φ 380V±10%, 50/60Hz	
Dimension (WxHxD)	325×88×450mm (2U chassis, 1kW)	425×132×551.5mm (3U chassis)	
	425×88×450mm (3U chassis, 2kW / 3kW)		
Weight (kg)	9kg (1kw) / 14kg (2kW / 3kW)	45kg	

Specifications

◇ TWD1000-series : Output Max : 1000W (Cabinet size: 2U & Input: 220Vac)

Model	Output			Resolution		Dimension (W×H×D)	Weight (kg)	Input Power
	Voltage	Current	Power	Voltage	Current			
TWD1000-60	0 ~ 60.000V	30.000A	1kW	0.001V	0.001A	325×88×435mm. (2U-width frame)	9	1Φ, 220V±10%, 50/60Hz
TWD1000-100	0 ~ 100.00V	15.000A	1kW	0.001V	0.001A			
TWD1000-200	0 ~ 200.00V	8.0000A	1kW	0.0001V	0.0001A			
TWD1000-300	0 ~ 300.00V	5.0000A	1kW	0.0001V	0.0001A			



◇ TWD2000-series : Output Max : 2000W (Canibet size 2U & Input 220Vac)

Model	Output			Resolution		Dimension (W×H×D)	Weight (kg)	Input Power
	Voltage	Current	Power	Voltage	Current			
TWD2000-45	0 ~ 45.000V	100.00A	2kW	0.001V	0.01A	425×88×435mm. (2U-width frame)	14	1Φ, 220V±10%, 50/60Hz
TWD2000-60	0 ~ 60.000V	80.000A	2kW	0.001V	0.001A			
TWD2000-80	0 ~ 80.000V	60.000A	2kW	0.001V	0.001A			
TWD2000-100	0 ~ 100.00V	45.000A	2kW	0.01V	0.001A			
TWD2000-150	0 ~ 150.00V	30.000A	2kW	0.01V	0.001A			
TWD2000-200	0 ~ 200.00V	23.000A	2kW	0.01V	0.001A			
TWD2000-300	0 ~ 300.00V	15.000A	2kW	0.01V	0.001A			
TWD2000-400	0 ~ 400.00V	12.000A	2kW	0.01V	0.001A			
TWD2000-500	0 ~ 500.00V	9.0000A	2kW	0.01V	0.0001A			
TWD2000-600	0 ~ 600.00V	8.0000A	2kW	0.01V	0.0001A			



◇ TWD3000-series : Output Max : 3000W (Canibet size 2U & Input 220Vac)

Model	Output			Resolution		Dimension (W×H×D)	Weight (kg)	Input Power
	Voltage	Current	Power	Voltage	Current			
TWD3000-45	0 ~ 45.000V	100.00A	3kW	0.001V	0.01A	425×88×435mm. (2U-width frame)	14	1Φ, 220V±10%, 50/60Hz
TWD3000-60	0 ~ 60.000V	80.000A	3kW	0.001V	0.001A			
TWD3000-80	0 ~ 80.000V	60.000A	3kW	0.001V	0.001A			
TWD3000-100	0 ~ 100.00V	45.000A	3kW	0.01V	0.001A			
TWD3000-150	0 ~ 150.00V	30.000A	3kW	0.01V	0.001A			
TWD3000-200	0 ~ 200.00V	23.000A	3kW	0.01V	0.001A			
TWD3000-300	0 ~ 300.00V	15.000A	3kW	0.01V	0.001A			
TWD3000-400	0 ~ 400.00V	12.000A	3kW	0.01V	0.001A			
TWD3000-500	0 ~ 500.00V	9.0000A	3kW	0.01V	0.0001A			
TWD3000-600	0 ~ 600.00V	8.0000A	3kW	0.01V	0.0001A			



◇ Output Max : 6000W (Size 3U & Input 380Vac)

Model	Output			Resolution		Dimension (W×H×D)	Weight (kg)	Input Power
	Voltage	Current	Power	Voltage	Current			
TWD6000-100	0 ~ 100.00V	100.00A	6000W	0.01V	0.01A	425×132×551.5mm. (2U-width frame)	25	3Φ, 380V±10%, 50/60Hz
TWD6000-150	0 ~ 150.00V	67.000A	6000W	0.01V	0.001A			
TWD6000-200	0 ~ 200.00V	50.000A	6000W	0.01V	0.001A			
TWD6000-250	0 ~ 250.00V	40.000A	6000W	0.01V	0.001A			
TWD6000-300	0 ~ 300.00V	34.000A	6000W	0.01V	0.001A			
TWD6000-400	0 ~ 400.00V	25.000A	6000W	0.01V	0.001A			
TWD6000-500	0 ~ 500.00V	20.000A	6000W	0.01V	0.001A			
TWD6000-600	0 ~ 600.00V	17.000A	6000W	0.01V	0.001A			
TWD6000-800	0 ~ 800.00V	12.000A	6000W	0.01V	0.001A			
TWD6000-1000	0 ~ 1000.0V	10.000A	6000W	0.1V	0.001A			
TWD6000-1200	0 ~ 1200.0V	8.0000A	6000W	0.1V	0.0001A			
TWD6000-1500	0 ~ 1500.0V	4.0000A	6000W	0.1V	0.0001A			

◇ Output Max : 8000W (Size 2U & Input 380Vac)

Model	Output			Resolution		Dimension (W×H×D)	Weight (kg)	Input Power
	Voltage	Current	Power	Voltage	Current			
TWD8000-100	0 ~ 100.00V	100.00A	8000W	0.01V	0.01A	425×132×551.5mm. (3U-width frame)	25	3Φ, 380V±10%, 50/60Hz
TWD8000-150	0 ~ 150.00V	67.000A	8000W	0.01V	0.001A			
TWD8000-200	0 ~ 200.00V	50.000A	8000W	0.01V	0.001A			
TWD8000-250	0 ~ 250.00V	40.000A	8000W	0.01V	0.001A			
TWD8000-300	0 ~ 300.00V	34.000A	8000W	0.01V	0.001A			
TWD8000-400	0 ~ 400.00V	25.000A	8000W	0.01V	0.001A			
TWD8000-500	0 ~ 500.00V	20.000A	8000W	0.01V	0.001A			
TWD8000-600	0 ~ 600.00V	17.000A	8000W	0.01V	0.001A			
TWD8000-800	0 ~ 800.00V	12.000A	8000W	0.01V	0.001A			
TWD8000-1000	0 ~ 1000.0V	10.000A	8000W	0.1V	0.001A			
TWD8000-1200	0 ~ 1200.0V	8.000A	8000W	0.1V	0.001A			
TWD8000-1500	0 ~ 1500.0V	5.000A	8000W	0.1V	0.001A			