

DC Power Supply

30kW-1000kW High-Power Programmable DC Power Supply TWS-Series

Product description:

TWS-series high-power DC power supply series is controlled by high-efficiency chips and adopts IGBT module adjustment mode. The single-machine power is 30KW-1000KW, the voltage range is 0-10000V, and 0-10000A can be customized according to customer needs. It has the characteristics of high efficiency, high precision, high stability, etc. It is equipped with a variety of auxiliary functions to make it more convenient and reliable for users to use. It is mainly used in scientific research

units, laboratories, and electronic production lines that require high-efficiency power supply testing.



- Power range: single machine power 30KW-1000KW.
- ♦ Voltage range: 0-10000V, 0-10000A can be customized.
- Output indication: high-precision voltage and current display, LCD touch screen display.
- Constant voltage and constant current: the output constant voltage and constant current are automatically switched, and the voltage and current values are continuously and linearly adjusted
- Protection function: overvoltage protection, overcurrent protection, overtemperature protection, overload protection.
- Communication function: RS232, RS485, LAN interface as standard, CAN port as optional.
- External sampling: This machine is equipped with external compensation as standard, which can reduce the voltage drop caused by a long output circuit (optional).
- Optional external control function: optional input analog signal to control power output (DCO-5V signal) (optional).
- Optional remote display: optional analog output signal to display power status (DCO-5V signal) (optional).



TWS1800-300: 540kW/1800V/300A Programmable DC Power Supply

Standard Accessories:

- User Manual
- Power cord
- RS-232 cable
- Software CD



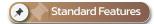
TWS1800-300 (Front panel)



TWS1800-300 (Rear panel)

TESSIO TECHNOLOGY LTD.





Operation Mode			
Line regulation	Voltage : ≤0.1% FS rms	Current : ≤0.1% FS rms	
Lod regulation	Voltage : ≤0.1% FS rms	Current : ≤0.1% FS rms	
Ripple & Noise (20Hz ~ 20MHz)	Voltage : ≤0.3% FS + 50mVrms	Current : ≤0.1% FS + 10mArms	
Time drift	Voltage : ≤0.5% FS rms	Current : ≤1% FS rms	
Temperature drift	Voltage : ≤0.1% FS rms	Current : ≤0.3% FS rms	
Setting Accuracy	Voltage : ≤0.1% FS + 20mV (≤100V)	≤0.1% FS + 100mV (300V) ≤0.1% FS + 300mV (≥600V)	
	Current : ≤0.3% FS + 10mA		
Setting Resolution	Voltage : 0.01V / 0.1V / 1V	Current : 0.001A / 0.01A / 0.1A / 1A	
Readback Accuracy	Voltage : ≤0.1% FS + 20mV (≤100V)	≤0.1% FS + 100mV (300V) ≤0.1% FS + 300mV (≥600V)	
	Current : ≤0.3% FS + 10mA		
Readback Resolution	Voltage : 0.01V / 0.1V / 1V	Current : 0.001A / 0.01A / 0.1A / 1A	
Response Time	≤5mS (10% ~ 90% Adj. Load)		
Protection	OVP, OCP, OTP and short-circuit		
O.V.P Setting Range	0.1V ~ 110% of Voltage range		
O.C.P Setting Range	0.1A ~ 110% of Current range		
Interface	RS-232, RS-485 and support ModBus-RTU commands		
Analog Output (Option)	Select: 0~5V, 0~10V or 4~20mA for control and reserve of voltage and current		
Cooling Method	Air Cooling		
Operating environment	0 ~ 40°C, 10% ~ 80%RH		
Storage environment	-20 ~ 70°C, 10% ~ 90%RH		
Input Power	≤ 6k : 1p2W, 220V±10% 50/60Hz		
	> 6k : 3p4W, 380V±10% 50/60Hz		
Input Module	Power scoket or Terminal box		

Q Specifications

Model		TWS1800-300	
Rate Output	Power	0 ~ 540kW	
	Voltage	0 ~ 1800V	
	Current	0~300A	
Load Regulation	Voltage	≤1%FS	
	Current	≤1%FS	
Set Value Resolution	Voltage	0.1V	
	Current	1A	
Readback Value Resolution	Voltage	0.1V	
	Current	1A	
Set Value Accuracy		≤1%FS + 200mV	
		≤1%FS + 200mA	
Readback Value Accuracy		≤1%FS + 200mV	
		≤1%FS + 200mA	
Ripple & Noise (20Hz~20MHz)		Voltage regulation : ≤1% + 10mV (rms)	
		Steady current state : ≤1% + 10mV (rms)	
Dynamic Resposne Time (10 ~ 90% Load)		≤5ms	
Voltage Setting and preset		Touch-screen	
Current Setting and Preset		Touch-screen	
Interface		Standard RS-232, RS-485, LAN	
Protection Function		Over-voltage, Over-current, Short circuit, Tempertaure protection	
Heat Dissipation Methold		Force air colling	
Operation Environment		Indoor use, Ambient tempertaure : $0 \sim 40^{\circ}$ C, Humidity : $10\% \sim 85\%$ RH	
Storage Environment		Temperature : -20°C ~ 70°C, Humidity : 10% ~ 90%RH	
Power Input		AC 380V±10%,50Hz	
Dimension (WxHxD)		2400x1865x937 mm.	