

GT-DC Series

Bidirectional DC Power Supply



Power range

10~300kVA



Operation

Online double conversion



Application

This DC source-load integrated unit is designed for the aging and automatic testing of various power supply products. It integrates a DC power source and regenerative load in one unit, and is widely used for the testing and aging of power equipment such as UPS, inverters, converters, as well as power electronic components including switches, circuit breakers, fuses, etc.



Characteristics

- Adopts a modular design, supporting hot-swap maintenance and capacity expansion without power interruption.
- With full digital DSP control over all power conversion stages, the system features higher availability.
- Comprehensive protection is provided at system, board and device levels, ensuring ultimate reliability and stronger environmental adaptability.
- The intelligent system self-diagnosis function offers abundant fault records and large-capacity historical data storage.
- A single system supports a capacity up to 1.2 MW, making it the ideal solution for ultra-high-power power supply testing equipment.

Model	Bidirectional DC Power Supply	
Power Range	10kVA-300kVA	
Main input	Input Wiring	3P5W(3P+N+PE)
	Input Voltage	380/400/415VAC(L-L)
	Input Frequency	50/60Hz
	Power Factor	> 0.99 (Main Mode, 100% Load)
	Current Distortion (THDi)	THDi<3%(Main Mode, 100% Linear load)
	Voltage Range	304~478VAC(L-L)full load; 304~228VAC(L-L) power derate from 100% to 50%
	Frequency Range	40-70Hz
	DC Side Input/Output	DC Voltage Adjustable Range
Maximum DC Side Power		100% Rated Power
DC Voltage Accuracy		±1.0%
Dynamic Response		±5.0%
System	System Efficiency	96%
	Display	LCD + LED + Extra-large color touch screen
	Safety	IEC62040-1, IEC60950-1
	EMC	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)
	Protection Grade	IP20
	Standard	USB, RS232, RS485, Dry Contact Card
	Optional	SNMP Card, Extended Dry Contact Card, Parallel Kit, Surge Protection Kit, APP/WiFi/Bluetooth
	Operating Environment	0~40°C (operating temperature); -25°C ~70°C (storage temperature); 0~95% (non-condensing)

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