

GT-AC Series

Bidirectional AC Power Supply



Power range

10~1200kVA



Operation

Online double conversion



Application

This product integrates an AC power source and a regenerative load in one unit, designed for the aging test and automatic testing of all types of AC-powered power supply products. It is widely used in the testing and aging of UPS systems, inverters, converters, and other AC power supply equipment, as well as power electronic components such as switches, circuit breakers, fuses, etc.



Characteristics

- Supports adjustable AC voltage & frequency in source mode, or adjustable regenerative load power in regenerative load mode; modes are selectable.
- Full digital DSP control with fully digital control over all power conversion stages for higher availability.
- Comprehensive protection at system, board and device levels for ultimate reliability and stronger environmental adaptability.
- Intelligent system self-diagnosis with abundant fault logging and large-capacity historical data storage.
- Single system capacity supports up to 1.2 MW, making it the ideal choice for ultra-high-power AC power supply testing equipment.

| Model | Bidirectional AC Power Supply | |
|------------------------|--|--|
| Power Range | 10kVA-1200kVA | |
| Main input | Input Wiring | 3P5W(3P+N+PE) |
| | Input Voltage | 380/400/415VAC(L-L); 220/230/240VAC(L-N) |
| | Input Frequency | 50/60Hz |
| | Power Factor | > 0.99 |
| | Current Distortion (THDi) | THDi<3%(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 |
| AC Source Mode Output | Adjustable Output Voltage Range | 130~480VAC(L-L), 75~277VAC(L-N) |
| | Adjustable Output Frequency Range | 38~72Hz |
| | Output Power Factor | 1.0 |
| | Output Voltage Accuracy | ±1.0% |
| | Output Frequency Accuracy | ±0.1% |
| Regenerative Load Mode | Regenerative Voltage / Frequency Range | 228~478VAC(L-L)/40~70Hz |
| | Regenerative Power Setting Range | 20%~100% Rated Power |
| | Output Power Factor | 1.0 |
| | Tracking Range | Settable, ±0.5Hz-±5Hz, default ±3Hz |
| | Tracking Rate | Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S |
| System | System Efficiency | 96% |
| | Display | LED+7/10 inch touch LCD |
| | 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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