HOT-SWAP MODULAR PARALLEL INVERTERS

The BWT1500 series designed with complete isolation of input and output, and allows hot plugging and parallel connection redundancy. Small size and convenient parallel connection, specially designed for users with high requirements for power supply reliability and maintainability

9.5 INCH RACK MOUNT INVERTER

INPUT 48VDC
POWER 800W/1000VA
OUTPUT 220VAC

Description

BWT1500 serial 48Vdc &220Vdc modular parallel connection inverter is an inversion device that converts 48V dc/220Vdc power supplied by communication DC power supply into 220V/50Hz sinusoidal AC power. Through conversion on the input DC power, the Pure Sine wave inverter offers users stable and Non-distorted AC power. In case of a power failure in business places, it offers key devices the power of flexible output voltage and frequency.

Feature

- ✓ Digital control: It adopts 32-bit DSP full digital and high-frequency SPWM technology, featuring strong anti-interference ability, fast calculation speed, high intelligence, accurate control precision and pure output waveform.
- ✓ N+1 parallel redundant design: It can form an N+1 parallel redundant power supply system. The modules are backup each other, with high reliability and flexible configuration.Large 128*64 digital LCD display data information,4 led display working;
- ✓ No master-slave parallel technology: The operation and parallel connection of each module are independently controlled by the built-in DSP, no single point of failure, independent flow between modules.
- ✓ With hot plugging: no need to do any parameter setting and operation, plug and play, the module automatically enters the normal working state, maintenance and replacement is simple and fast.
- ✓ Module built-in bypass: Users can choose inverter priority or bypass priority.
- ✓ Monitoring management: indicator panel, fault sound and light alarm, RS485 communication interface and fault dry contact.
- ✓ Protection function: It has the functions of input over-voltage, output over-voltage, over-temperature, short-circuit and so on.
- ✓ High power density: 1/2 19″ width design, the volume is only half the width of the conventional inverter, saving space and convenient parallel.

Technical Data

Model	BWT48/220-1KVAS
INPUT	
DC Input Voltage	48Vdc
DC Input Current	21.0Max
DC Input Voltage Range	40-60V
Backfill Noise Current	≤10%
AC BY-PASS INPUT	
Input Voltage Range	270V-190V($\pm$10Vac)
Rated Input Current	4.5A
Transfer Time	<12ms
OUTPUT	
Output Capacity	1000VA
Rated Output Capacity	800W
Rated output Voltage	220VAC
Rated Output Current	3.6A
Output Voltage Range	220Vac(Tolerance ±1.5%)
Output Efficiency	≥85%
Output Frequency	50Hz
Frequency Range	43~67Hz
Output Wave	Pure sine wave
THD	≤3% (Line Load)
Switch Time (By pass to Inverter	≤12ms (With Load)
Output Frequency Range	50$\pm$0.1% or 60$\pm$0.1%
Dynamic Response Time	5%(load 0←→100%)
PF	0.8
Output Over Current Protection	
Over Load Capacity	Continue working 10min @105%<load<125%
Over Load Capacity	Continue working 1min @ 125%<Load<150%
Over Temp. Protection	Yes
short circuit Protection	Yes (Don't test under AC Connect)
Reverse connection protection	Yes
ENVIRONMENT TEST PERFORMANCE	
Ambient Temp.	-20~ +50℃
High temperature operation	50±2℃ (rated load 24H)
Low temperature operation	-20±2℃ (rated load 24H)
High temperature storage	80±2 ℃，24H
Low temperature storage	-40±2℃，24H
Humidity	0~90%，No moisture condensation
Operating Altitude (m)	Altitude Full power up to 2000m.derating -2% / 100m, max altitude 5000m
PARALLEL MODE	
Max Parallel quantities	2 units

MEASUREMENT	
Module Size W*D*H(mm)	216mm *426mm*44mm
Cabinet Size W*D*H(mm)	482mm*441mm*44mm
Module Weight(total)	4.5kg
Cabint Weight	3.5kg

Reminder

BWT48/220-1KVAs 1U module, the max parallel module is 2 unit(1 cabinet and 2 module)

BWT48/220-2KVAs 2U module, the max parallel module is 8 unit(4 cabinet and 8 module)

BWT48/220-3KVAs 2U module, the max parallel module is 8 unit(4 cabinet and 8 module)