Modular Parallel Inverter

BVT220/220-6KVAS

Technical Parameter

HUIZHOU BVT TECHNOLOGY CO., LTD
Web: www.bvtpower.com

Product form	Rated power	6KVA
	Size (W×H×D）(mm)	19"/2U
		216*88*421
Input parameter	DC Input Voltage	220VDC
	DC Input Range	190～270VDC
	Bypass Input Range	176～264(Can be adjustable according customer)
	Bypass Switch time	5～12ms
Ac output	Rate output Voltage	220VAC
	Rate output Frequency	50Hz
	Load regulation	<1%
	Frequency accuracy	<0.1%
	peak factor	3：1
	Waveform distortion	Resistance full load＜3%，nonlinear full load＜5%
	Dynamic response	Voltage transient range＜3%，transient response recovery time≤60ms（load from 0 to 100）
	Parallel uneven flow	＜3% rated current RMS
	Overload capacity	Load current ＜105%, continuous work Load current 105～125%, continuous work 10min shutdown Load current 125～150%，continuous work after 1min shutdown Load current＞150%，after 20ms shutdown
	Protection function	Input connection protection, input under voltage and over-voltage protection, output overload protection, output short circuit protection, over temperature protection
Communication	Communication interface	RS485
Work environment	Insulation strength	2KVac，1min
	Noise (1 m)	＜45dB
	Operating ambient temperature	－10～50℃
	Transport and storage temperature	－40～70℃
	Relative humidity	0～90%, no condensation
	Relative altitude (M)	≤3000m，1500～3000m, 1% decrease in output for every 100 m increase
Protection		Input under Voltage、Input over Voltage,Output Over load、Short circuit
Test Specification		EN 61000-6-3:2007 EN 61000-6:2007 EN61000-3-2:2014 EN 61000-3-3:2013 EN IEC 62368-1:2020

Function and Feature

- BVT-DT1500 series parallel inverters are the intelligent inverters. The 32-bit DSP digital control technology achieve control the line simply, reliably and quickly to respond to the changes of external environment.
- BVT-DT1500 series parallel inverters adopt SPWM pulse width modulation technology and output pure sinusoidal wave with stable frequency, stable voltage, noise filtering and low distortion.
- BVT-DT1500 series parallel inverters have strong carrying capacity and built-in bypass switch, which improves the continuity and reliability of power supply for inverters.
- BVT-DT1500 series parallel inverters adopt advanced back-injection noise suppression technology at DC input, and do not interfere with other communication equipment sharing DC power supply. AC input adopts multiple filtering to eliminate the interference of municipal power grid and meet the demand of main AC power supply in application system.
- BVT-DT1500 series parallel inverters can be flexibly set to AC main supply and DC main supply (through LCD screen field setting)。
- AC main power supply inverter power supply is in the city output when there is electricity, and switch to the inverter output automatically when the city power input fault.
- DC main power supply inverter power supply is in inverter output when there is power supply, and automatically switches to city power output when DC input fault.
- BVT-DT1500 series parallel inverter power supply when the failure of buzzer alarm, can be closed by silencing key
- BVT-DT1500 series parallel inverter power supply design is perfect, allowing to cut off DC in the state of start, automatically switch to power bypass, do not affect the load of power supply, convenient to battery maintenance and replacement;
- BVT-DT1500 series parallel inverters return to normal after high/low battery voltage and overload alarm turn-off. After eliminating overload phenomenon for 5 minutes, the inverters automatically recovery output.
- BVT-DT1500 series parallel inverter power supply supports AC boot function, which is used in DC fault situation.
- BVT-DT1500 series parallel inverter power supply provides two groups of passive dry junction points (with separate dry contact interface), which are respectively used for normal start-up and failure.
- Communication mode RS485,MODBUS protocol.