

# Single Phase Hybrid Inverter

## BZ11048-48V



**11KW  
48VDC**

- Lithium Battery Auto-restart Function more convenient for Lithium Battery Charging
- Battery Reverse Connection Protection with Fuse Switch, Safer Installation
- High Precision of Output Voltage,  $\pm 5\%$ , Take Care of Your Appliances
- Intelligent Power Supply Mode, Intelligent Distribution of Solar Panel/Mains/Battery Power Shares
- PF1.0, High Efficiency, Lower Consumption, Energy Conservation/Environmental Protection/Electricity Saving/Cost Saving
- Communication Option: External WIFI, Supervise at Any Time
- Utility Charging Voltage/PV Charging Voltage Adjustable Match Different Battery Charging Requirements
- Support Working without Battery: Reduce Solar System Cost
- BMS function for lithium battery
- Slim Body, Convenient Installation And Transportation
- Parallel Function Up to Maximum 9 Units: Enlarge More Loads



Model		BZ11048SMH
AC Input Data	Input format	L+N+PE
	Rated input voltage	220/230/240 VAC
	Voltage range	90-280VAC±3V(Normal Mode) 170-280VAC±3V(UPS mode)
	Frequency range	50Hz/60Hz(Automatic Adaptation )
AC Output Data	Rated power	11000W
	Battery inverter	12000W
	Photovoltaic inverter	
	Output voltage	220/230/240 VAC±5%
	Output frequency	50/60Hz±0.1%
	Waveform	Pure sine wave
	Switching time (adjustable)	UPS MODE : 10 ms. (APL MODE) : 20 ms.
Grid-connected operation	Peak power	22000VA
	Overload capacity	Battery mode : 11s@105%~150% Load;2s@150%~200% Load;400ms@>200% Load
	Output voltage	220/230/240 VAC
	Voltage range fed into the power grid	170-265VAC
	Frequency range fed into the power grid	49-51±1Hz/59-61±1Hz
Battery	Rated output current	47.8A
	Power factor range	>0.99
	Maximum conversion efficiency (DC/AC)	98%
PV-AC Charger	Rated voltage	48Vdc
	Constant charging voltage (adjustable)	56.4Vdc
	Float charging voltage (adjustable)	54Vdc
Display	PV charging	Dual-path MPPT
	Maximum input power of PV	2x7500W
	MPPT input voltage range	90~500Vdc
	Optimal Vmp operating range	360~430Vdc
	Maximum PV input voltage	500Vdc
	Maximum PV input current	27A/27A
	Maximum PV charging current	150A
	Maximum mains power charging current	150A
Interface	Maximum charging current	150A
	LCD interface	It can display operating mode / load / input / output, etc.
	RS232	Baud rate 240
	Extended slot communication interface RS 485	Lithium battery BMS communication card, WIFI card, dry contact card, etc.
Environmental parameters	compatibility BMS	PYLONTECH-PYTES-DYNESSE-BYD-SUNWODA-EVE-PACEE-JD
	Parallel interface	Parallel Grid connection
	Operating environment temperature	-10~50°C
	Operating environment humidity	20%~95%(No condensation )
Physical parameters	Storage temperature	-15~60°C
	Altitude	The altitude should not exceed 1000 meters. For altitudes above 1000 meters, the rating should be reduced . The maximum altitude is 4000 meters. Refer to IEC 62040.
	Noise	≤50db
Physical parameters	Depth x Width x Height (mm)	570.8x471x148.2
	Weight (for reference) KG	19.3
Standards and Certifications		EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1