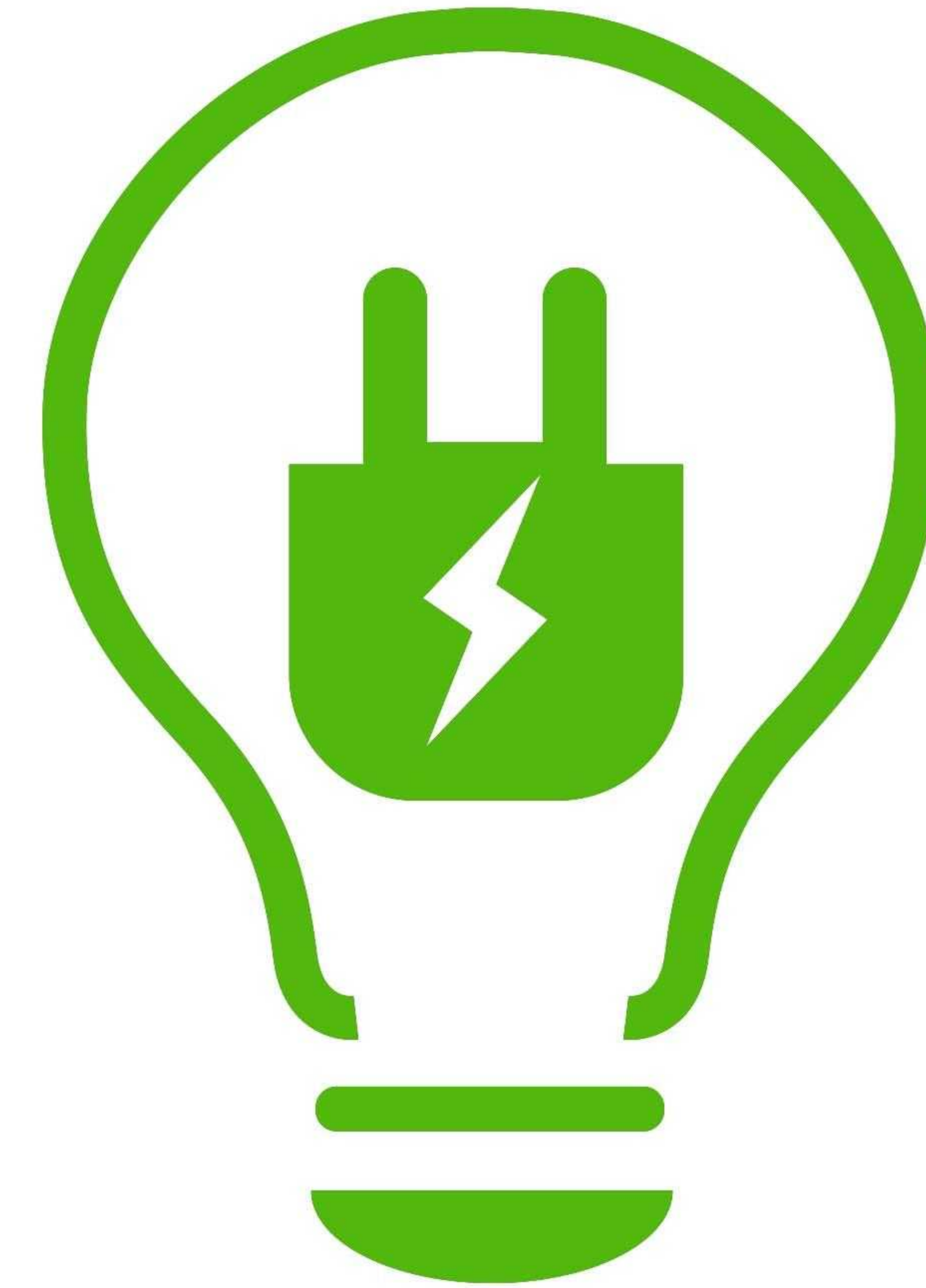


Energy Storage **LiFePO4 Battery** BESS Power Your Life

Smart technology coexists with nature
to power your home



Shenzhen Yuyang New Energy Co., Ltd

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Company Address:

Room 603, Liangjizhuhui Building, 184 Qingquan Road, Yucui community, Longhua District, Shenzhen

Factory Address:

No.18, Yucai Road, Jinji Village, Dalingshan Town, Dongguan City, Guangdong Province, China

Shenzhen Yuyang New Energy Co., Ltd is a high-tech enterprise established in 2010 that specializes in the R&D, manufacture, and sales of LifePo4 rechargeable lithium energy storage batteries. Our main product categories include home energy storage systems, commercial & industrial energy storage container systems, and low-speed vehicle batteries. As a professional LifePO4 lithium energy storage battery manufacturer, we cooperate with top cell brands and have obtained ISO9001: 2008 and ISO14001: 2004 certifications. Our factory has a production capacity of 20,000 units per month and we retain a safety stock of 8 million USD for battery cells.

ELFBULB, Power Your LiFe

Yuyang New Energy Co., Ltd is a high-tech enterprise set up in 2010 and focus on R&D, manufacture, and sales of LifePo4 rechargeable lithium energy storage batteries. With a sales & customer service center in Shenzhen, and production factory in Dongguan covering an area of over 30,000 sqm, we are committed to the development and application of renewable energy.

We have over 200 production workers, and the export of our factory in 2022 exceeded 70 million US dollars. Our main product category includes home energy storage series, commercial & industrial use big capacity energy storage container systems, and low speed vehicle batteries. Under the home use energy storage category, we have wall mounted type storage batteries, stackable type batteries, and battery & inverter 2in1 systems to cover from 5KWH to 50KWH, with low voltage and high voltage options; Under the commercial & industry category, we have high voltage battery cabinets covering from 50-100KWH and all in one ESS covering 200KWH-2000KWH. Under the low speed vehicle batteries, our battery covers the use of golf cart, speedboat, forklift, etc.

As a scaled and professional LifePO4 lithium energy storage battery manufacturer, we have close cooperation with reputed cell brands including BYD, CATL, GOTION, EVE, REPT, Sunwoda, Gotion and so on. The production capacity of our factory can reach 20,000 units various battery packs monthly, and in order to assure the stable supply to our valued customers we retain a safety stock of 8 million USD for battery cells. Our company has obtained ISO9001: 2008 quality management system and ISO14001: 2004 environmental quality system certifications. All our exported products have got CE certification and passed China customs authoritative testing.



R&D and manufacturing highlights

- > Persistent technology innovation
- > All-round testing
- > Intelligent design
- > Automated production line
- > Using high-quality battery cells
- > Support customization and OEM/ODM
- > Providing customized solutions

Worldwide transport and South African warehouses



Dedicated to providing new energy solutions

ELFBULB is committed to new energy solutions, and we are proud to provide professional solutions to our customers.

- ✓ **Low-speed vehicle batteries,** including golf carts, boat, etc.
- ✓ **Commercial and industrial systems,** including 215Kwh commercial and industrial energy storage systems, etc.
- ✓ **Home energy storage systems,** including wall mounted battery, rack mounted battery, satcked battery, etc.
- ✓ **Container ESS,** including 1MWH 2MWH 5MWH energy storage container systems, etc.



Touch screen series

5KWh/10KWh



LCD Touch Screen

Touch screen series

15KWh/17.5KWh/22KWh



5-inch and 7-inch screen available

- ▷ 6000 cycles @30% DOD @25°C
- ▷ Rated at 0.5C
- ▷ Full capacity
- ▷ Grade A cells

Technical Parameters

Model	EBT-1-5	EBT-1-10
Nominal voltage	51.2V	51.2V
Nominal capacity	100Ah	200Ah
Energy	5.12KWh	10.24KWh
Cycle life	> 6000 cycles @80%DOD	
Certification	CE、UN38.3、MSDS	
Communication port	RS485/RS232/CAN	
Parallel	Parallel Connection up to 15 packs with full communications	
Max.Continuous charging current	100A (Recommend 50A)	200A (Recommend 100A)
Max.Continuous discharging current	100A	200A
Max C rating	1C	
Operating Temperature	Charging:0 to +50°C, Discharging:-10 to +50°C	
Protection	Electronic Circuit Breaker,BMS Voltage Protection,Current Limiting	
Weight	55KG	91KG
Size	550*460*164mm	755*575*185mm
Touch Screen	5-inch screen and 7-inch screen available	

Technical Parameters

Model	EBT-2-15	EBT-2-17	EBT-2-22
Nominal voltage	48V	48V	48V
Usable capacity	360Ah	400Ah	400Ah
Energy	17.28KWh	19.2KWh	19.2KWh
Cycle life	> 6000 cycles @80%DOD	> 6000 cycles @80%DOD	> 6000 cycles @80%DOD
Certification	CE、UN38.3、MSDS	CE、UN38.3、MSDS	CE、UN38.3、MSDS
Communication port	RS485/RS232/CAN	RS485/RS232/CAN	RS485/RS232/CAN
Series parallel mode	15S1P	15S1P	15S1P
Max.Continuous charging current	200A (Recommend 100A)	200A (Recommend 100A)	200A (Recommend 100A)
Max.Continuous discharging current	200A	200A	200A
Max C rating	0.5C	0.5C	0.5C
Size with wheels	1050*682*385mm	1050*682*385mm	1050*682*385mm
Touch screen	5-inch screen and 7-inch screen available		

All In One Powerwall Battery



Expandable up to 10KWH and 15KWH

5 kW/Inverter



Max.continuous discharge power

5 kWh - 15 kWh

Flexible capacity

5/10 Years

Optional warranty

-  **Ultra-slim design saves space, measuring just 150mm thick.**
-  **Easy Plug and Play: Simplifies installation and lowers costs.**
-  **Preset function for charging and discharging**
-  **Touch screen for easy operation and monitoring.**
-  **Expandable battery and inverter capacity**
-  **WiFi Monitoring: Monitor system status conveniently via App.**

SPECIFICATION(EBA-2)

Inverter Parameters

Inverter Output	
Rated Output Power	5000W
Maximum Peak Power	10000VA
Rated Output Voltage	230Vac(single phase)
Load-Carrying Motor Capacity	4HP
Rated Output Frequency	50Hz/60Hz
Photovoltaic Input	
MPPT Channels	1
Maximum Photovoltaic Input Power	5200W
Maximum Input Current	18A
Maximum Open Circuit Voltage of Photovoltaic	500Vdc
Utility/Grid/Generator Input	
Input Voltage Range	170-280Vac
Frequency Range	50Hz/60Hz
Bypass Overload Current	40A

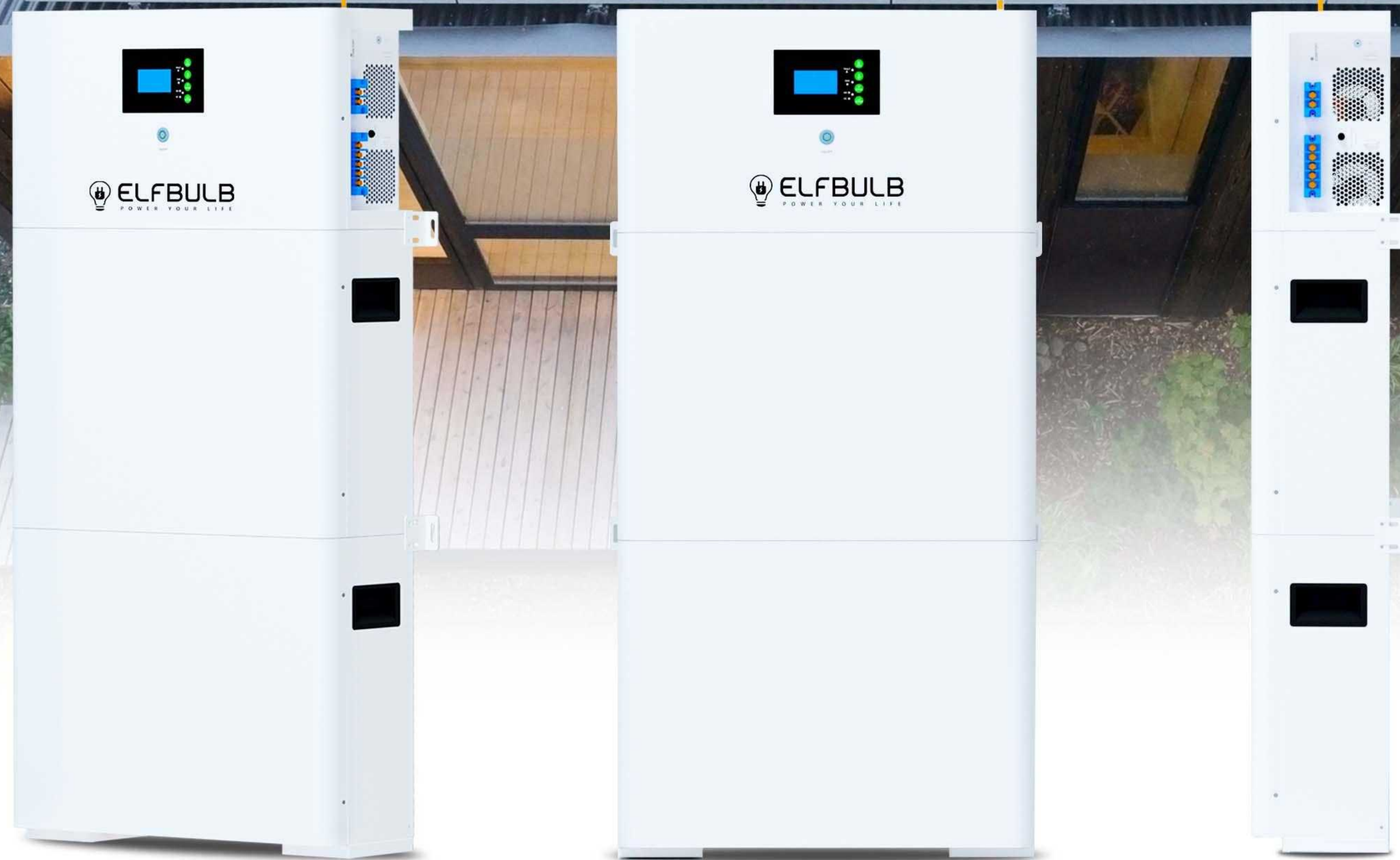
Battery Parameters

Nominal Voltage	51.2V
Norminal Capacity	100Ah
Norminal Battery Energy	5.12KWh
Charging cut-off voltage	58.4V
Discharging cut-off voltage	40V
Max.Continuous Charging Current	100A(Recommend 50A)
Max.continuous Discharge Current	100A
Max C Rating	1C
Communication	RS485/RS232/CAN
Cycle Life	> 6000 cycles @80%DOD &1C
Certification& Safety standard	CE/UN38.3/MSDS

Product Parameters

Operating Temperature	Charging:0 to +50°C, Discharging:-10 to +50°C
Storage Temperature	-10 to +55°C
Protection	Over-charge/Over-discharge/Over-current/Over-temperature/Short Circuit
Size	860*555*150 mm
Weight	65Kg(Without bracket)

All In One Battery With Inverter



Inverter key features:

- Pure sine wave output
- Efficient power delivery (1 power factor)
- Expandable (up to 9 units)
- Works with wide range of solar panels
- Flexible battery setup (battery independent)
- Includes solar charger (100A MPPT)
- Maintains battery health (equalization)
- Built-in dust protection

Lithium battery product features:

- Delivers clean, stable power (sine wave output)
- 4 Charging Modes: solar, mains, or hybrid
- Uninterrupted power with bypass and inverter modes
- Saves energy (power saving mode)
- Quiet cooling (adjustable fan)

SPECIFICATION(EBA-3)

Technical Parameters	
Battery Parameters	
Model	EBA-3
Single battery voltage	51.2V
Single battery capacity	100Ah
Single battery power	5.12KWh
Cycle life	> 6000 cycles @80%DOD
Certification	CE、UN38.3、MSDS
Communication port	RS485/RS232/CAN
Series parallel mode	16S1P
Max.Continuous charging discharging current	100A (Recommend 50A) 100A
Max C rating	1C
Single battery weight	50KG
Single battery size	588*430*195mm
Inverter Parameters	
Rated Power	5500VA/5500W
Input	
Voltage	230VAC
Selectable voltage range	170-280VAC(For personal computers);90-280VAC(For home appliances)
Frequency range	50Hz/60Hz(Auto sensing)
Output	
AC voltage regulation	230VAC±5°C
Surge power	11000VAC
Efficiency(peak)	Up to 93.5%
Transfer time	10ms(For personal computers);20ms(For home appliances)
Waveform	Pure sine wave
Solar charger & AC charger	
Maximum PV array open circuit voltage	500VDC
Maximum PV array power	5500W
MPPT range @ operating voltage	120~450VDC
Maximum solar charge current	100A
Maximum Ac charge current	80A
Maximum charge current	100A
Physical	
Net weight	10kg
Environment	
Humidity	5% to 95% relative humidity(Non-condensing)
Operating Storage temperature	-10°C to 50°C -15°C to 50°C

ALL IN ONE Battery With Inverter

Design LiFe
Designed for 10 years cycle life

Long Cycles
6000 cycles at 80% DOD @25°C

Communication Port
RS485 & RS232 & CAN

Plug And Play
Easy installation



SPECIFICATION(EBA-1)

Inverter Parameters

INVERTER OUTPUT	
Rated Output Power	5,000W
Max.Peak Power	10,000VA
Rated Output Voltage	230Vac (L/N/PE single-phase)
Load Capacity of Motors	4HP
Rated AC Frequency	50/60Hz
Waveform	Pure sine wave
Switch Time	10ms (typical)
PV INPUT	
Num. of MPP Trackers	1
Max.PV array power	5,500W
Max.input current	22A
Max.Voltage of Open Circuit	500Vdc
MPPT Voltage Range	125~450Vdc
MAINS / GENERATOR INPUT	
Input Voltage Range	90~280Vac
Frequency Range	50/60Hz
Bypass Overload Current	40A
EFFICIENCY	
MPPT Tracking Efficiency	99.9%
Max. Battery Inverter Efficiency	92%
COMMUNICATION	
Embedded Interfaces	RS485/CAN/USB/dry contact
External Modules (Optional)	Wi-Fi/GPRS
CERTIFICATION	
Safety	CE (IEC62109-1)
EMC	EN61000
RoHS	yes

Battery Parameters

Nominal Voltage	51.2V
Norminal Capacity	100Ah
Norminal Battery Energy	5.12KWh
Charging cut-off voltage	58.4V
Discharging cut-off voltage	40V
Max.Continuous Charging Current	100A(Recommend 50A)
Max.continuous Discharge Current	100A
Max C Rating	1C
Parallel Capability	Up to 15 units
Communication	RS485/RS232/CAN
Cycle Life	> 6000 cycles @80%DOD &1C
Certification& Safety standard	CE/UN38.3/MSDS

Product Parameters

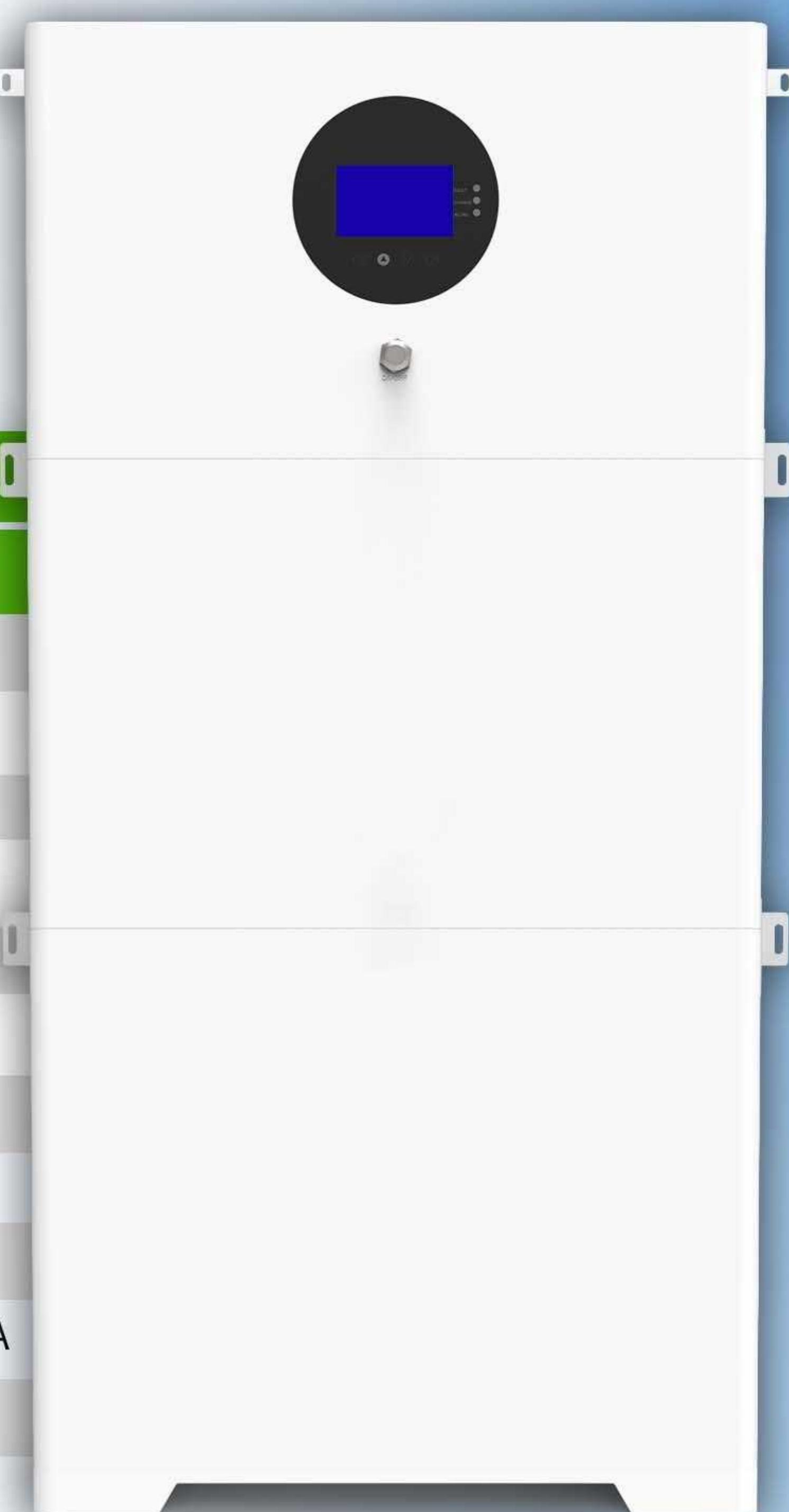
Operating Temperature	Charging:0 to +50°C, Discharging:-10 to +50°C
Storage Temperature	-10 to +55°C
Protection	Over-charge/Over-discharge/Over-current/Over-temperature/Short Circuit
Net Weight(KGS)	68KGS
Dimension	900*500*160mm



Complete Safety Certification

All In One Battery With Inverter

5KW Inverter & 10KWh Battery



Technical Parameters

Battery Parameters

Model	EBA-4
Number of batteries	2
Single battery voltage	51.2V
Single battery capacity	100Ah
Total capacity	10.24KWh
Cycle life	> 6000 cycles @80%DOD
Certification	CE、UN38.3、MSDS
Communication port	RS485/RS232/CAN
Series parallel mode	16S1P
Max.Continuous charging discharging current	100A (Recommend 50A) 100A
Max C rating	1C
Single battery weight	50KG
Single battery size	588*435*195mm
Size(entire product)	632*11330*230mm

Inverter Parameters

Off-grid output

Rated output power	5500W
Maximum peak power	11,000VA
Rated output voltage	230Vac, single phase
Load motor capacity	4HP
Output frequency range	50Hz ± 0.3Hz/60Hz ± 0.3Hz
Switching time	10ms(Typical value)

Grid output

Rated output power	5500W
Maximum apparent power	11,000VA
Rated output current	24A
Maximum output current	26.4A
Total harmonic current	<3%
Power Factor	0.8 lead/0.8 lag
Rated voltage	230Vac, single phase
Frequency	50Hz/60Hz



15kWh Lithium Battery



LARGE CAPACITY BATTERY

Meet your long-term power supply needs

51.2V 280AH/300AH

Technical Parameters

Nominal voltage	51.2V
Usable capacity	280Ah/300Ah
Energy	15KWh
Cycle life	> 6000 cycles @80%DOD
Certification	CE、UN38.3、MSDS
Communication port	RS485/RS232/CAN
Series parallel mode	16S1P
Max.Continuous charging current	200A (Recommend 100A)
Max.Continuous discharging current	200A
Max C rating	0.5C
Size with wheels	565*261*805mm
Net Weight	125kg

Wall Mounted Battery

5KWh/10KWh



LiFePo4 Battery Module

15 Units

Support 15 units in parallels

5KWh — 76.8KWh

Expandable capacity

Can stand
Powerwall

Life cycles
6000+

Technical Parameters

Model	EBW-05	EBW-10
Nominal voltage	51.2V	51.2V
Nominal capacity	100Ah	200Ah
Energy	5.12KWh	10.24KWh
Cycle life	> 6000 cycles @80%DOD	
Certification	CE, UN38.3, MSDS	
Communication port	RS485/RS232/CAN	
Parallel	Parallel Connection up to 15 packs with full communications	
Max.Continuous charging current	100A (Recommend 50A)	200A (Recommend 100A)
Max.Continuous discharging current	100A	200A
Max C rating	1C	
Operating Temperature	Charging:0 to +50°C, Discharging:-10 to +50°C	
Protection	Electronic Circuit Breaker,BMS Voltage Protection,Current Limiting	
Weight	55KG	91KG
Size	550*460*164mm	755*575*185mm

15kWh 20kWh Battery



LIFEPO4 BATTERY

Perfect solution to household electricity problems, energy saving, environmental protection and money saving.

Technical Parameters

Model	EBS17	EBS20
Nominal voltage	48V	48V
Usable capacity	360Ah	400Ah
Energy	17.28KWh	19.2KWh
Cycle life	> 6000 cycles @80%DOD	> 6000 cycles @80%DOD
Certification	CE, UN38.3, MSDS	CE, UN38.3, MSDS
Communication port	RS485/RS232/CAN	RS485/RS232/CAN
Series parallel mode	15S1P	15S1P
Max.Continuous charging current	200A (Recommend 100A)	200A (Recommend 100A)
Max.Continuous discharging current	200A	200A
Max C rating	0.5C	0.5C
Size with wheels	1050*682*385mm	1050*682*385mm
Color	Optional	Optional

Stacked LiFePO4 Battery

99.2%

Max. efficiency

Up to

15.36kWh

6000+

Cycles life



5KWh Wall Mounted



15KWh Stackable

CE MSDS UL UN38.3



4.8kWh To 196kWh

- Long lifespan: 6000+ cycles
- 1C charge & discharge rate
- 100% usable energy with 4.8KWh for each module
- Works seamlessly with all mainstream inverters
- 5/10 years factory warranty

Technical Parameters

Model	EBW-01-05	EBS-01-10	EBS-01-15
Number of batteries	1	2	3
Nominal voltage	51.2V	51.2V	51.2V
Single battery capacity	104Ah	104Ah	104Ah
Single battery power	5.32KWh	5.32KWh	5.32KWh
Total capacity	5.32KWh	10.64KWh	15.96KWh
Cycle life	> 6000 cycles @80%DOD		
Certification	CE、UN38.3、MSDS		
Communication port	RS485/RS232/CAN		
Series parallel mode	16S1P		
Max.Continuous charging current	100A (Recommend 50A)		
Max.Continuous discharging current	100A		
Max C rating	1C		
Single battery weight	50KG		
Single battery size	610*190*375mm		

Technical Parameters

Model	EBS-03
Nominal voltage	48V
Single battery capacity	100Ah
Single battery power	4.8KWh
Cycle life	> 6000 cycles @80%DOD
Certification	CE、UN38.3、MSDS、UL1973、UL9540
Communication port	RS485/RS232/CAN
Series parallel mode	15S1P
Max.Continuous charging current	Uni module (Recommended 52A) Two modules (Recommended 104A) Three modules (Recommended 156A) Four modules (Recommended 208A)
Max.Continuous discharging current	Unimodule (Recommended 52A) Two modules (Recommended 104A) Three modules (Recommended 156A) Four modules (Recommended 208A)
Max C rating	1C
Single battery weight	50KG
Single battery size	620*460*195mm

Low Voltage Stackable Battery

10.24kWh

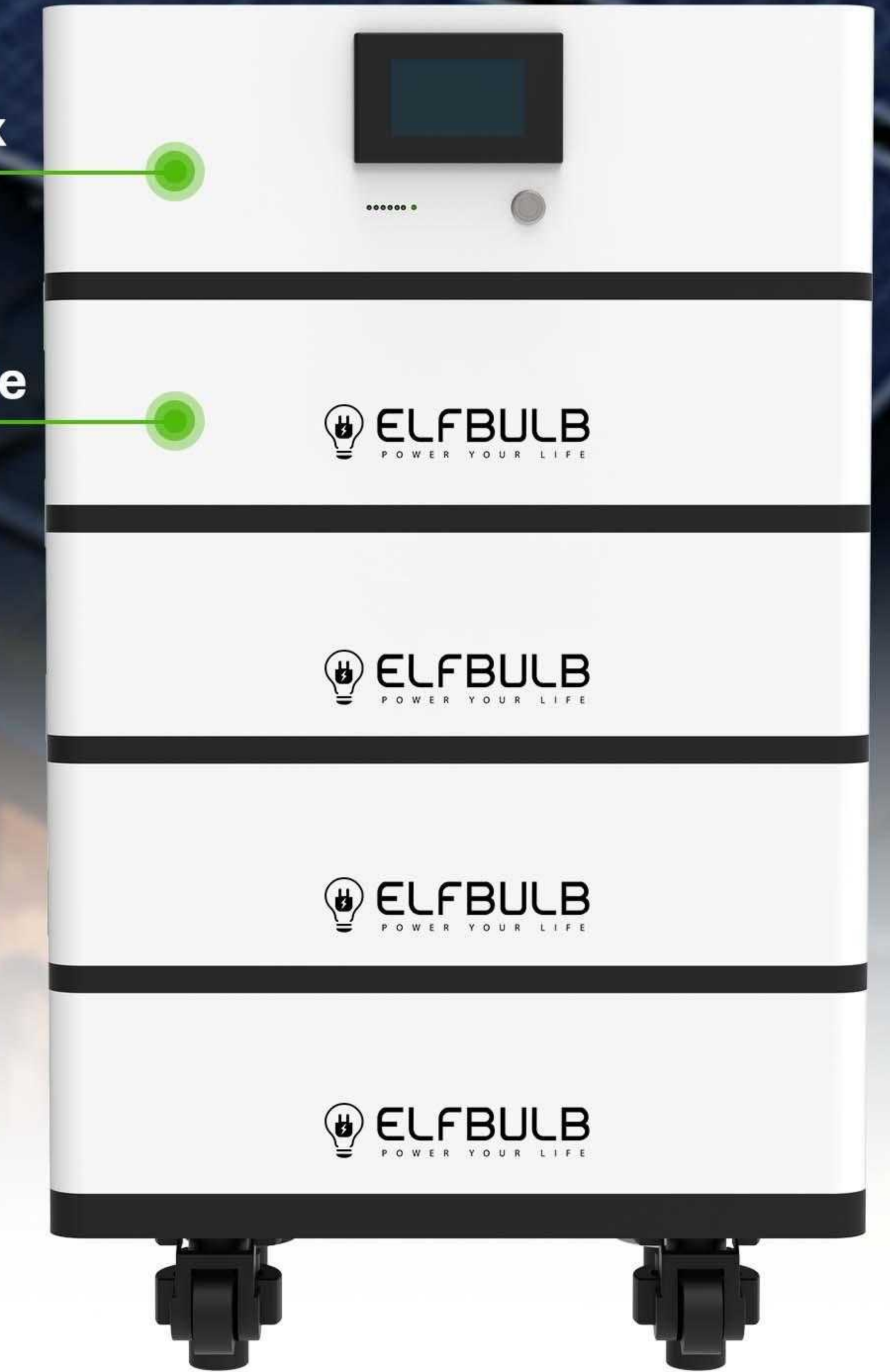
- 51.2V 100Ah(Single battery)
- Support parallel connection
- With LCD screen
- 100A Smart BMS



High Voltage Stackable Battery

High voltage controller box

51.2V 100Ah Battery Module



24/7 Power Supply

Technical Parameters

Model	EBS-04
Standard Voltage	51.2V
Charging voltage	58.4V
Maximum charging current	100A
Maximum discharge current	200A
Charging temperature	0~55°C
Discharging temperature	0~60°C
Overall size	600*475*370mm (not include bottom wheel)
Total weight	About 49kg
External communications	CAN, 4: CANH,5:CANL Defined as follows
Internal communications	RS485A
Connect to host computer for communication	RS232

Technical Parameters

Model	EBH-1
Standard Voltage	204.8V
Charging voltage	233.6V
Maximum charging current	50A
Maximum discharge current	100A
Charging temperature	0~55°C
Discharging temperature	0~60°C
Overall size	600*475*891mm (not include bottom wheel)
Total weight	About 260kg
External communications	CAN, 4: CANH,5:CANL (High voltage box Internet port COM Defined as follows)
Internal communications	CAN (8-pin aviation plug on the high-voltage box, 12-pin aviation plug on the battery box)
Connect to host computer for communication	RS485,7:RS485A1,8:RS485B1 (high voltage box Internet port COM) are defined as follows

High Voltage Series

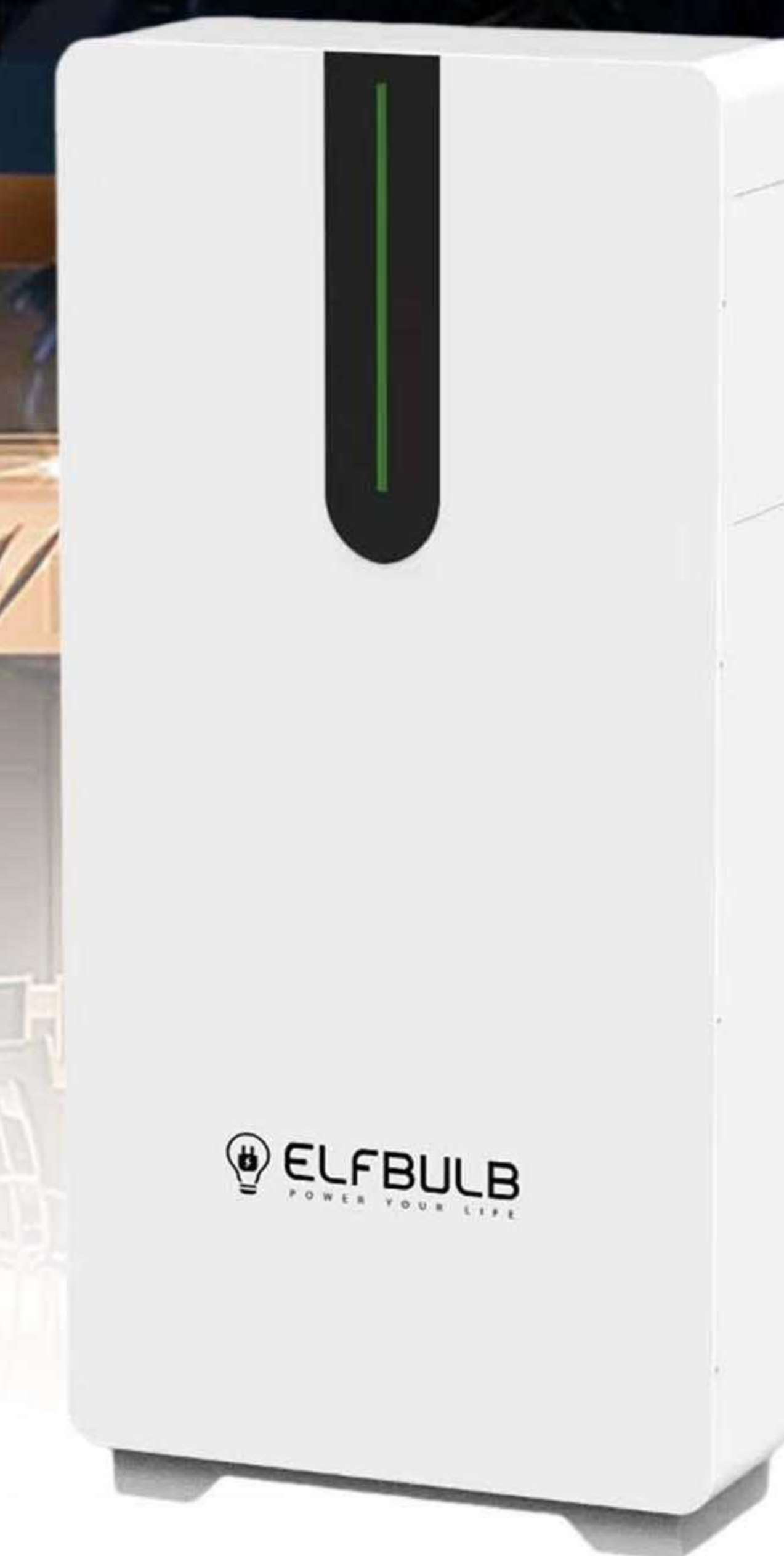
- Modular structure, easy to install
- Support multiple communication protocols
- Support high current charging/discharging
- LED lights display equipment parameters in real time
- Supports up to 4 clusters in parallel
- Can be used with hybrid inverter

192~384V



- Support multiple communication protocols
- Support high current charging/discharging
- LED lights display equipment parameters in real time
- Supports up to 4 clusters in parallel
- Can be used with hybrid inverter

384V 27Ah



Technical Parameters	EBH-384	
Batteries materials	Lithium iron phosphate	
Series parallel mode (S series,P parallel)	120S1P	60~120S1P
Nominal voltage	384V(Single module 96V)	192~384V
Nominal capacity	27Ah	52Ah
Single battery pack capacity	2592Wh	
Size(mm)	560*350*975	
Weight	<30kg(Single module)	
Parallel support	Parallel terminals are supported	
Output port mode	Terminal	
Charging way	CC/CP/VP	
Charging current	0.2C(standard)	
Maximum charging current	Max1C@25°C	
Discharge way	CC/CPVP	
Discharge current	0.5C	
Maximum discharge current	Max1C @25°C	
Communication interface	RS485/RS232/CAN	
Charging operating temperature:charging	Charging:0~+50°C	
Discharge operating temperature	Discharge:-20~+55°C	

Technical Parameters	EBH-384-27
Series parallel mode (S series, P parallel)	120S1P
Nominal voltage	384V(Single module 96V)
Nominal capacity	27Ah
Size(mm)	520*230*1060
Weight	<100kg
Color	Optional
Parallel support	Parallel terminals are supported
Output port mode	terminal
Charging way	CC/CPVP
Charging current	0.5C(standard)
Maximum charging current	1C @25C
Charge cut-off voltage	438Vdc
Discharge way	CC/CPVP
Discharge current	0.5C(standard)
Maximum discharge current	1C @25C
Discharge cut-off voltage	336Vdc
Indicator	LED
Communication interface	RS485/RS232/CAN
Charging operating temperature	0~+50°C
Discharging operating temperature	-20~+55°C

High Voltage Stackable

8KW-15KW 20.48-30.72KWh



All in one battery system

Intelligent residential energy storage system

10000vA
Rated output power

125~850v
MPPT working voltage range

11000vA
Maximum output power

Screen or App
Human-computer interaction

22000vA
Maximum input power

Wifi or Wan
Cloud communication interface



Intelligence monitoring



household appliances.



Save storage of energy



Multiple options for capacity

100% Discharge(DOD)	UN38.3 Certification	APP Power Monitoring
4000 Meters Maximum Elevation	-20°C~60°C Discharge	10 Years Service life

SPECIFICATION

Three-phase high voltage box parameter table

Model	EBH-8-15	EBH-8-20	EBH-10-15	EBH-10-20
Rated output power(VA)	8000		10000	
Maximum output power(VA)	8800		11000	
Maximum input power(VA)	17600		22000	
Maximum DC input power(W)	11400		13000	
Rated output voltage(V)	400V,3W+N+PE		400V,3W+N+PE	
MPPT working voltage range(V)	125~850		125~850	
MPPT input channels	2		2	
Dimension(mm)	600*475*692		600*475*692	
Weight(KG)	66.6		67.6	
Human-computer interaction	display screen or App		display screen or App	
BMS interface	CAN		CAN	
Meter communication interface	RS485		RS485	
Cloud communication interface	WIFI or WAN		WIFI or WAN	
Degree of protection	IP20		IP20	
Operating temperature	-20°C~55°C		-20°C~55°C	
Relative humidity	0~100%		0~100%	
Cooling method	air cooled		air cooled	
Noise	≤25dB		≤25dB	
Installation method	Stacked		Stacked	

Battery box parameter table

	15KWH	20KWH	15KWH	20KWH
Nominal capacity	15KWH	20KWH	15KWH	20KWH
Input battery voltage range	120-175.2V	160-233.6V	120-175.2V	160-233.6V
Battery pack rated voltage	153.6V	204.8V	153.6V	204.8V
Total battery	3	4	3	4
Machine size (including high pressure box, bottom wheel)mm	600*475*1293	600*475*1460	600*475*1293	600*475*1460
Single battery voltage range	40-58.4V		40-58.4V	
Single battery rated voltage	51.2V		51.2V	
Single battery power	5.12KWH		5.12KWH	
Single battery size	600*475*167		600*475*167	
Net weight without bottom wheel battery	46.9KG		46.9KG	
Maximum charge/discharge current	40A/40A		40A/40A	
Battery Type	LFP		LFP	
Communication Interface	CAN		CAN	
Degree of protection	IP20		IP20	
Operating temperature	-15°C-55°C		-15°C-55°C	

Lead Acid Replacement



KEY FEATURES

-20°C~60°C

Wider Temperature Range

IP65

Water dust resistance

40%

About 40% of the weight of a comparable battery

Bluetooth

ODM Plus Function

Built-in BMS

Smart Protection

6000+

Longer Cycle Life

● **High Energy Design:**

Free of maintenance and Internal cell balancing.

● **ODM Plus Function:**

Bluetooth, Charge Heating, LCD display

● **Smart Protection:**

Built-in BMS, for over-charge, over discharge, over current and over temperature.

● **Longer Cycle Life:**

Using the technology of lithium iron phosphate cell, superior safety, >6000 cycles@1C 80%DOD

12V/24V/48V Series

Suitable for Lawn and Garden Tools, Parking lot, Garage, Warehouse Automatic Door Power Supply, Home Use Car, Marine Backup Power Supply, Photovoltaic 12V, 24V, 48V off-grid Applications, Telecom Base Station Energy Storage, Electric Wheelchairs, Scooters, Golf cart parking air conditioning Power supply, etc.



SPECIFICATION(12V SERIES)



Technical Parameters

Model	EBL-12-09	EBL-12-18	EBL-12-30	EBL-12-50	EBL-12-100	EBL-12-150	EBL-12-200	EBL-12-300
Cell	LiFePO4							
Nominal voltage	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V
Nominal capacity	9Ah	18Ah	30Ah	50Ah	100Ah	150Ah	200Ah	300Ah
Energy	115.2Wh	230Wh	384Wh	640Wh	1280Wh	1920Wh	2560Wh	3840Wh
Cycle life	6000 cycles @80% DOD							
Series parallel mode	4S1P	4S1P	4S2P	4S1P	4S1P	4S1P	4S1P	4S1P
Operating temperature	Charging: 0~+55°C Humidity: 15%~75% Storage: 10~+50°C							
Protection	Electronic circuit breaker, BMS voltage protection, current limiting							
Water dust resistance	IP65							
Net Weight(kg)	1.02	2	3.5	5.28	10.3	14.9	19.5	26.5
Size(mm)	151*94*65	180*168*74	231*145*211	231*145*211	339*185*218	483*170*240	502*186*243	502*186*243

SPECIFICATION(24V/48V SERIES)



Technical Parameters

Model	EBL-24-100	EBL-24-150	EBL-24-200	EBL-24-230	EBL-48-50	EBL-48-100
Cell	LiFePO4					
Nominal voltage	25.6V	25.6V	25.6V	25.6V	48V	48V
Nominal capacity	100Ah	150Ah	200Ah	230Ah	50Ah	100Ah
Energy	2560Wh	3840Wh	5120Wh	5888Wh	2400Wh	4800Wh
Cycle life	6000 cycles @80% DOD					
Series parallel mode	8S1P	8S1P	8S2P	8S1P	15S1P	15S1P
Operating temperature	Charging: 0~+55°C Humidity: 15%~75% Storage: 10~+50°C					
Protection	Electronic circuit breaker, BMS voltage protection, current limiting					
Water dust resistance	IP65					
Net Weight(kg)	19.1	25.8	37.2	40	21	42
Size(mm)	502*186*243	502*186*243	523*269*218	520*269*220	405*173*208	521*269*220

Lithium Trolley Battery

Portable LiFePo4 Battery

25.6V 50Ah



- All in one system, built inside with 24~48V lithium battery module
- 1-2kw Off grid solar inverter, Solar/AC Charger
- Modular Design for easy installation and expansion
- Smart BMS built inside
- LiFePo4 cells cycle time Up to 4000-6000 times charge/discharge cycles life
- MPPT Solar charging and AC Charging function with all around protection
- Maximum 6 units can be in parallel to expand the capacity to 7.68kwh
- DOD 80%, warranty 3 years, 10+ years life design

SPECIFICATION(EBP-01)

Technical Parameters

INVERTER / CHARGER

Inverter Type	1KW/25.6V
Rated Output Power	1.2KW
Output Voltage Waveform	Pure Sine Wave
Output Voltage	230VAC 50HZ
Low DC Warning Voltage	22.4Vdc
Low DC Cut-off Voltage	21.2Vdc
Low DC Warning Return Voltage	22.4Vdc
Total Charging Current(Grid+solar)	20A Max.
Bulk Charging Voltage	29.3Vdc
Float Charging Voltage	28.8Vdc

LITHIUM IR ON BATTERY

Normal Battery Modular	25.6V50Ah
Normal Capacity (25°C, 0.2C)	1280Wh
Nominal Battery Voltage	25.6Vdc
Max.Charge Current	60A
Max.Discharge Current	60A
Operation Voltage Range	22.4Vdc~29.2Vdc
Operation Temperature	-23°C~+65°C

AC INPUT

Nominal Input Voltage	230Vac
Low Loss Voltage	170Vac ±7(UPS),90Vac± 7(Appliances)
Low Loss Return Voltage	180Vac ± 7(UPS),100Vac ± 7(Appliances)
High Loss Voltage	250Vac ± 7
High Loss Return Voltage	260Vac ± 7
Max. AC Input Voltage	265V ac
Nominal Input Frequency	50HZ
AC Charging Current	20A Max
AC Output	220-230V
DC Output	12V-10A

SOLAR INPUT

Nominal PV Voltage	36Vdc
PV Array MPPT Voltage Range	30Vdc~60Vdc
Max. PV Array Open Circuit Voltage	60Vdc
Solar Charging Current	10A Max

PRODUCT SIZE

430*190*410mm

PROTECTION

Overcharge protection,Overdischarge protection,Overcurrent protection,
Shortcircuit protection,Overtemperature protection

AMBIENT

Noise(dB)	<30°C <40dB(1 meter)
Working Temperature	-23°C~+65°C
Humidity	0~95% (no condensation)
Sea Level(m)	≤1500

OTHERS

Efficiency	92.0%
Warranty	3 years

EV Battery

Suitable for Swapping Station, Golf carts, Electric Sightseeing Car, Shuttle Bus, Electric Patrol Car, Electric Forklifts, Electric Sweepers, Reach Lift Truck, and all kinds of low-speed car, etc



Features

- LifePO4 Batteries more ideally for your golf carts, tuktuk and low speed vehicles
- Smaller, lighter, more Powerful and drive longer than Lead acid battery
- Safe performance with Smart BMS control for high current, voltage, temperature protection
- Free maintenance, Eco-friendly
- Most Competitive price with free technical support
- Support for private Logo for OEM & ODM
- Compatible with major brands of golf carts controllers

SPECIFICATION(48V SERIES)

Technical Parameters

Model	EBE-48-30	EBE-48-50	EBE-48-60	EBE-48-100
Cell	LiFePo4			
Nominal voltage	48V	48V	48V	48V
Nominal capacity	30Ah	50Ah	60Ah	100Ah
Energy	1440Wh	2400Wh	2880Wh	4800Wh
Cycle life	> 3000 cycles @25°C			
Series parallel mode	15S1P			
Operating temperature	Charging: 0~+55°C Humidity: 15%~75% Storage: 10~+50°C			
Protection	Electronic circuit breaker,BMS voltage protection,current limiting			
Water dust resistance	IP55			

SPECIFICATION(60V SERIES)

Technical Parameters

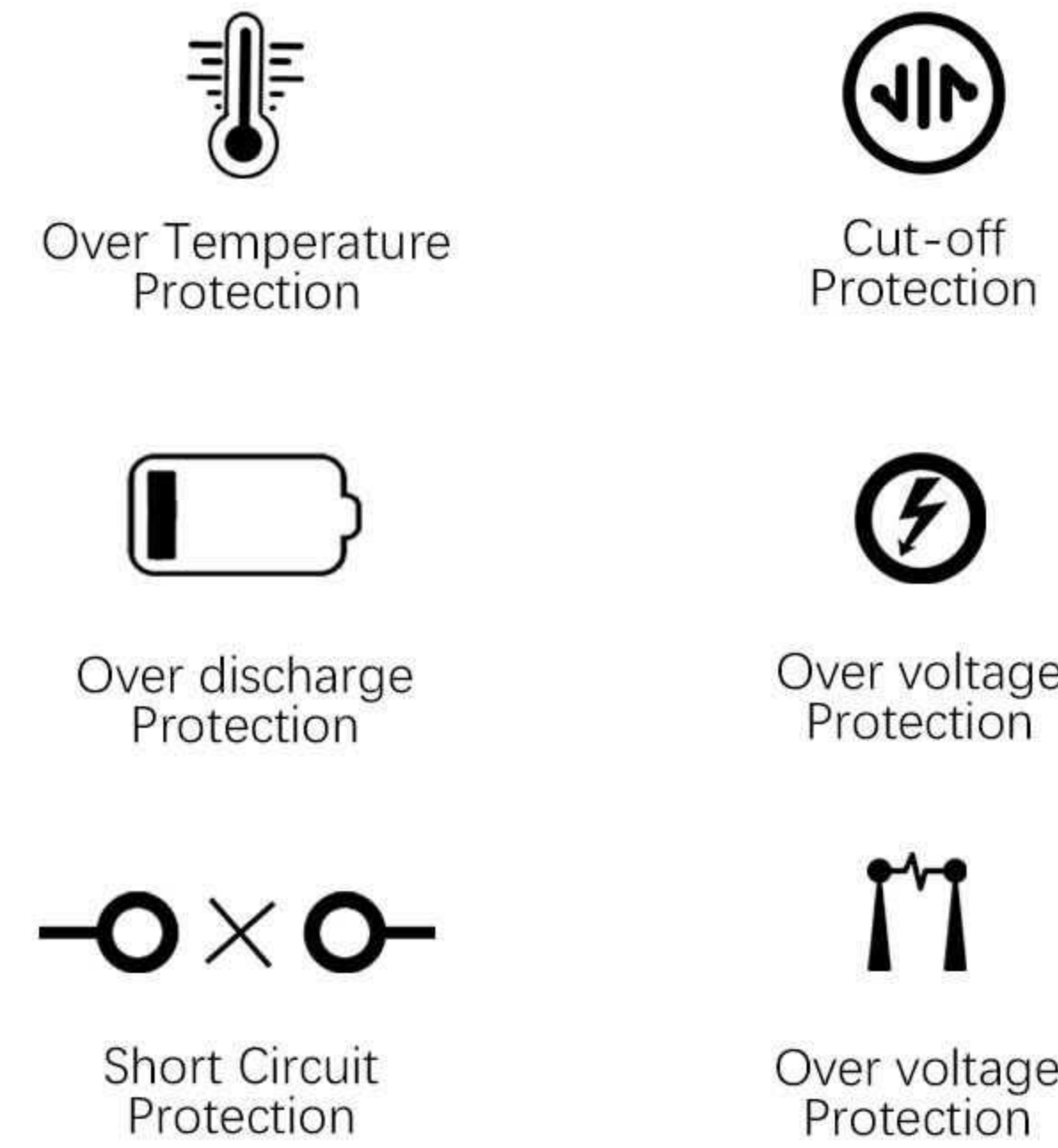
Model	EBE-60-30	EBE-60-40	EBE-60-80	EBE-60-160
Cell	LiFePo4			
Nominal voltage	60.8V	60.8V	60.8V	60.8V
Nominal capacity	30Ah	40Ah	80Ah	160Ah
Energy	1824Wh	2432Wh	4864Wh	9728Wh
Cycle life	> 3000 cycles @25°C			
Series parallel mode	19S1P	19S1P	19S1P	19S2P
Operating temperature	Charging: 0~+55°C Humidity: 15%~75% Storage: 10~+50°C			
Protection	Electronic circuit breaker,BMS voltage protection,current			
Water dust resistance	IP55			

SPECIFICATION(72V SERIES)

Technical Parameters

Model	EBE-72-50	EBE-72-100	EBE-72-200	EBE-72-230
Cell	LiFePo4			
Nominal voltage	73.6V	73.6V	73.6V	73.6V
Nominal capacity	50Ah	100Ah	200Ah	230Ah
Energy	3680Wh	7360Wh	14720Wh	16928Wh
Cycle life	> 3000 cycles @25°C			
Series parallel mode	23S1P	23S1P	23S1P	23S2P
Operating temperature	Charging: 0~+55°C Humidity: 15%~75% Storage: 10~+50°C			
Protection	Electronic circuit breaker,BMS voltage protection,current			
Water dust resistance	IP55			

Rack Mounted Battery



APPLICATION

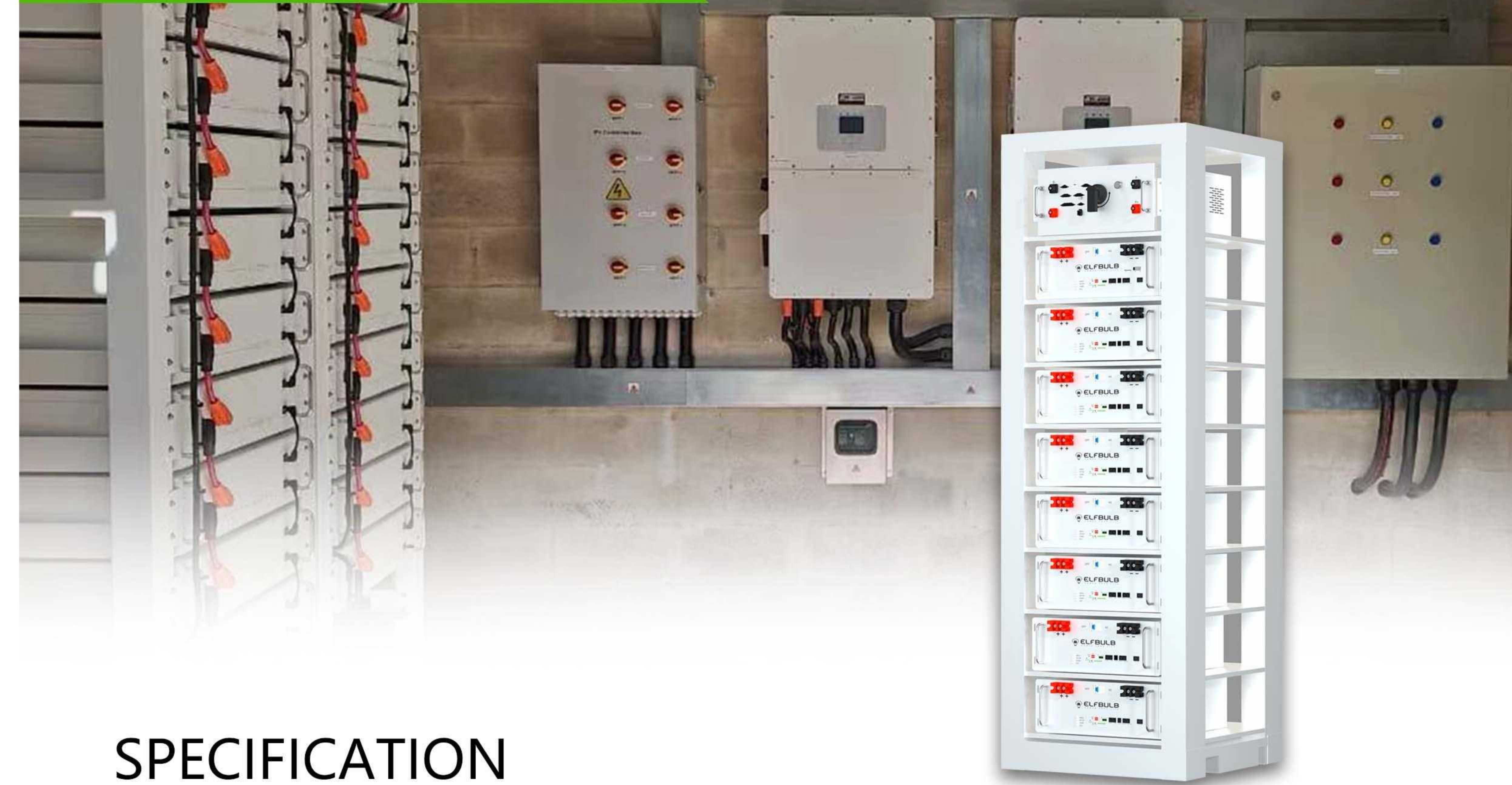
Lithium iron phosphate batteries are widely used in various applications, including electric vehicles, energy storage systems, lighting equipment, mobile devices, and solar systems.

SPECIFICATION

Technical Parameters

Model	EBR-02	EBR-05	EBR-10
Nominal voltage	25.6V	51.2V	51.2V
Nominal capacity	100Ah	100Ah	200Ah
Energy	2.56KWh	5.12KWh	10.24KWh
Cycle life	> 6000 cycles @80%DOD		
Certification	CE、UN38.3、MSDS		
Communication port	RS485/RS232/CAN		
Parallel	Parallel Connection up to 15 packs with full communications		
Max.Continuous charging current	100A (Recommend 50A)	100A (Recommend 50A)	200A (Recommend 100A)
Max.Continuous discharging current	100A	100A	200A
Max C rating	1C		
Operating Temperature	Charging:0 to +50°C, Discharging:-10 to +50°C		
Protection	Electronic Circuit Breaker,BMS Voltage Protection,Current Limiting		
Weight	21KG	43KG	72KG
Size	470*450*133mm	490*484*170mm	490*484*250mm

High Voltage Cabinet



SPECIFICATION

Technical Parameters

Model	EBH-153-100	EBH-204-100	EBH-409-100	EBH-614-100
Module Energy	5.12KWH			
Module Nominal Voltage	51.2V			
Module Capacity	100Ah			
BAT Module Qty(Optional)	3x51.2V100Ah	4x51.2V100Ah	8x51.2V100Ah	12x51.2V100Ah
System Nominal Voltage	153.6V	204.8V	409.6V	614.4V
System Operating Voltage	120~175.2V	160~234V	320~467.2V	480~700V
System Energy	15.36KWH	20.48KWH	40.96KWH	61.44KWH
Charge/Discharge Current(A)	Recommend:50 Nominal:100 Peak Discharge 150 (2mins,25°C)			
Working Temperature(°C)	Charge:0~55/Discharge:-20~55			
Communication Port	CAN/RS232/RS485			
Humidity	5~85%RH			
Altitude	≤2000m			
IP Rating of Enclosure	IP54			
Net Weight	Approx. 150kg without cabinet	Approx. 230kg without cabinet	500kg without cabinet	Approx. 650kg without cabinet
Dimension(mm)	589*590*900	1200* 693*1102	2090*693*1102	550*600*2240
Installation Location	Rack Mounting			
Storage Temperature(C)	0~35			
Recommend DOD of Discharge	90%			
Cycle Life	25±2°C, 0.5C/0.5C,EOL70%≥6000			
Certification	CE/IEC62619 /UL1973 /UL9540A /UN38.3			

Container ESS



Reduce maximum demand charges



Peak shifting



Increase self-consumption rate of distributed energy resources



Automated demand response



Protection of critical loads in off-grid applications

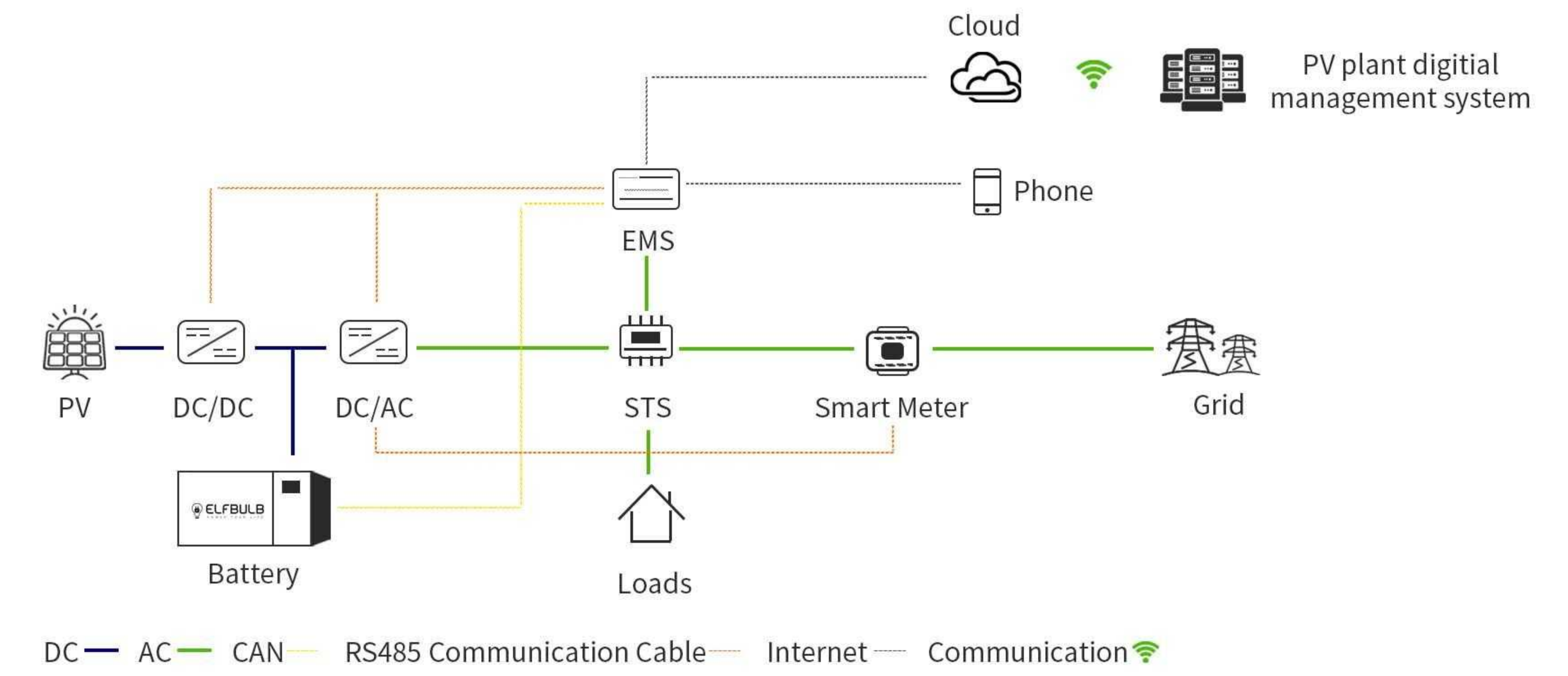


Electricity spot trading arbitrage and hedging

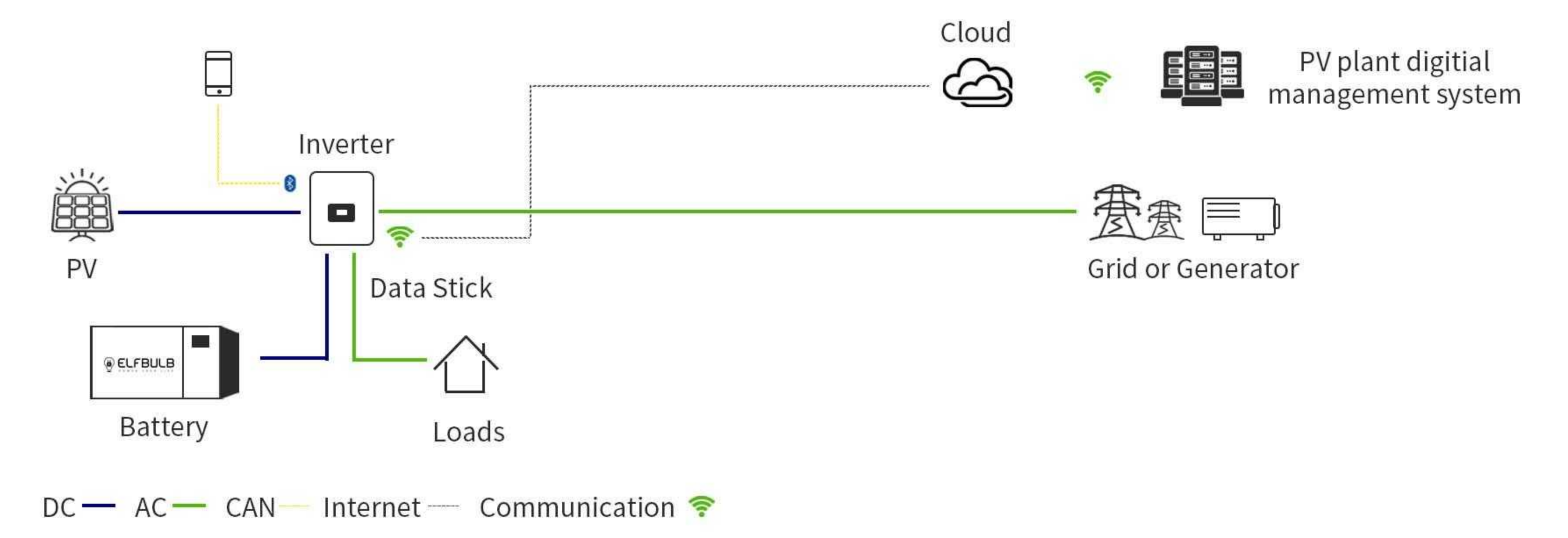


ELFBULB ESS SOLUTIONS

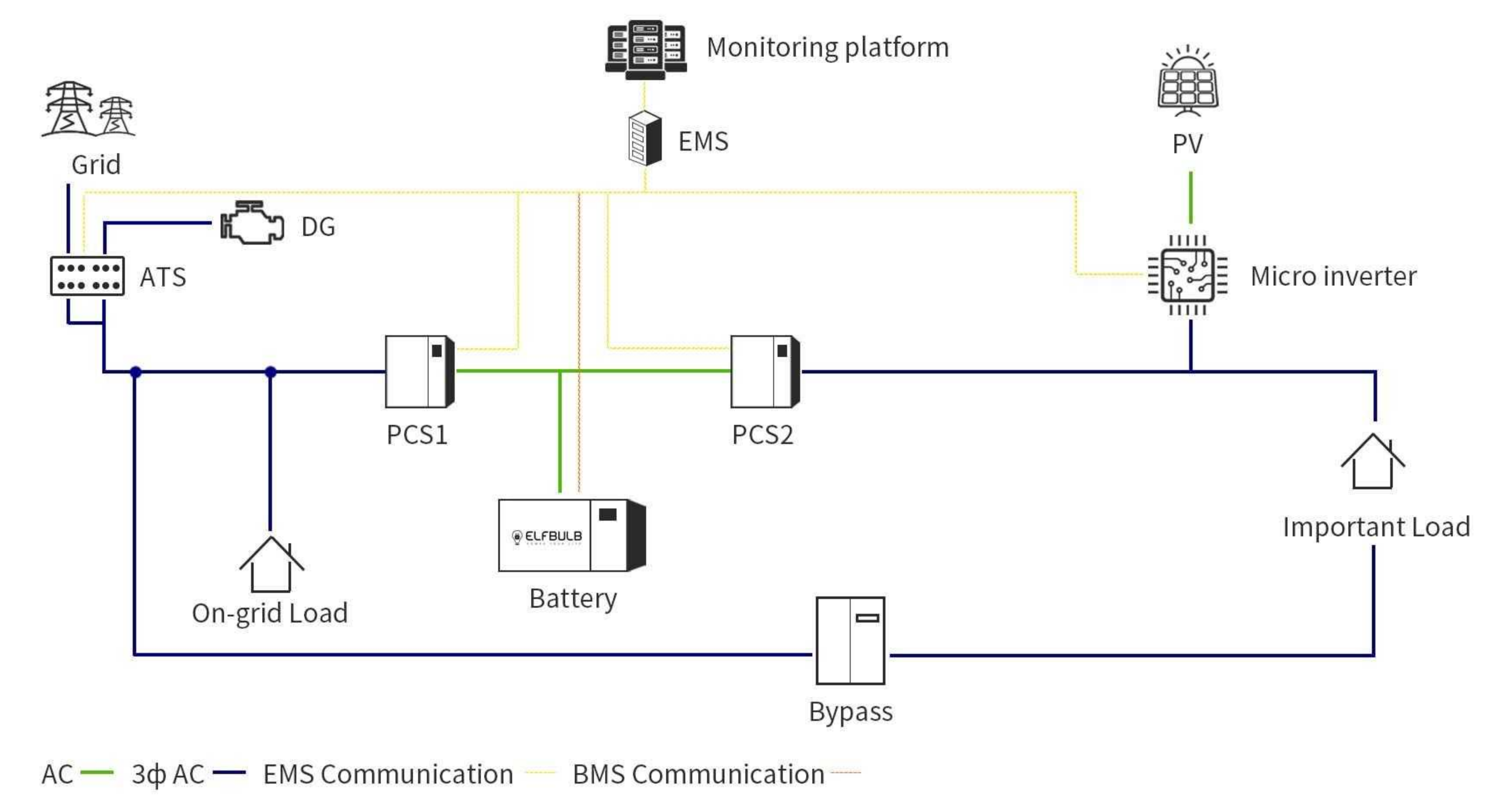
Commercial Energy Storage Solution(module)



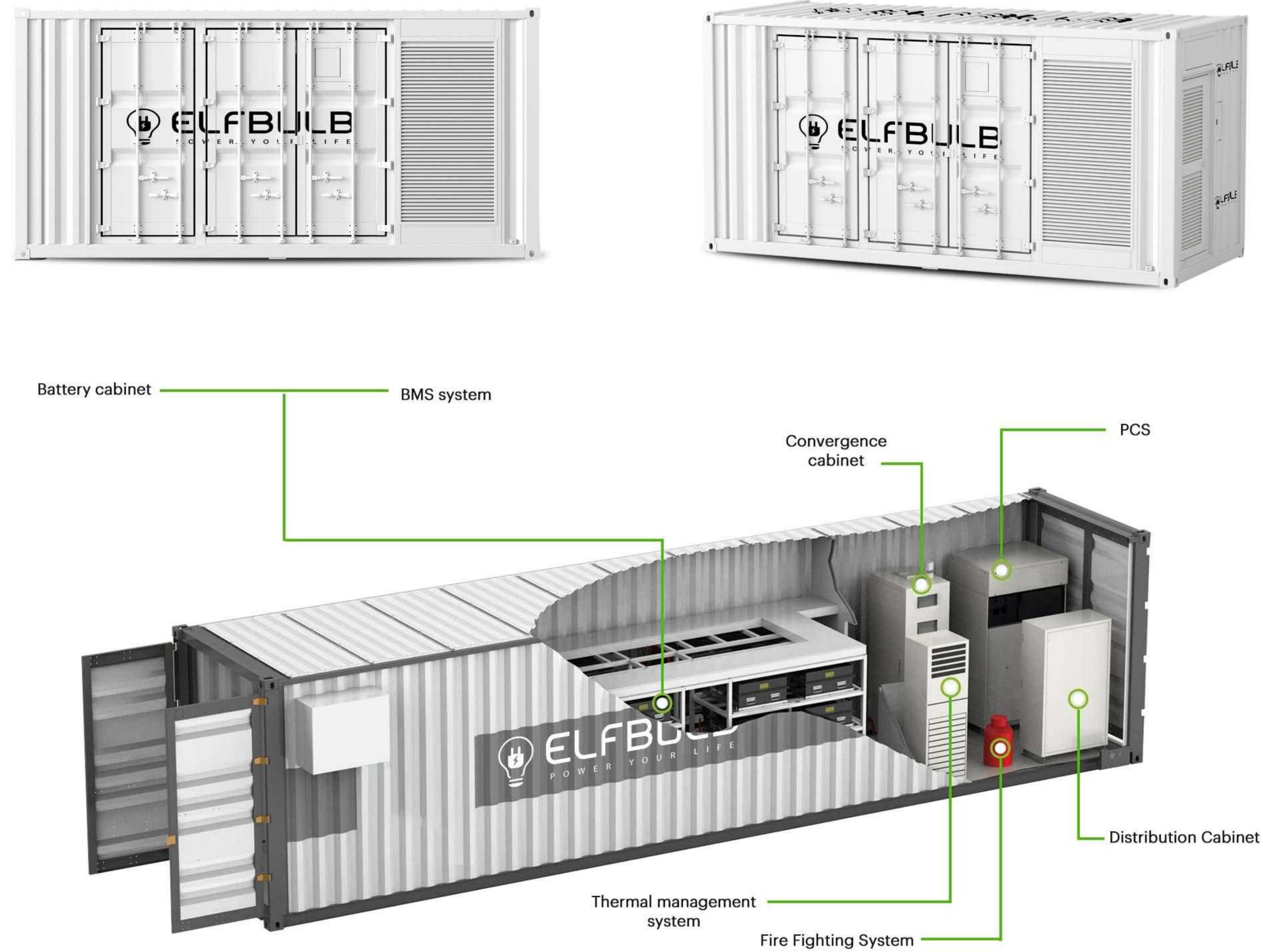
Off-grid Energy Storage Solution



Online-0ms changeover solution



Heavy Duty Containerised ESS(1~500MWh)



SPECIFICATION

Technical Parameters

Module	EBC1	EBC2	EBC3
Capacity	1.6MWh	2MWh	3.44MWh
PCS Power	500KW	1000KW	
Battery Rack	768V280Ah	1229V280Ah	1229V280Ah
Cooling system	Air-cooling	Liquid-cooling	Liquid-cooling
Composing Equipment	Batery pack, PCS , EMS ,Fire Extinguisher, HVAC, Cooling System		
Voltage-distortion degree (THDu)	<1.2%(linear load)		
Rated output frequency	50Hz / 60Hz (Settable)		
Usable power	97%-98% of usable energy		
Warranty	5 years free warranty		
Communication	Ethernet / CAN / RS485		
Certificates	EN50549,IEC 62477 (PCS) MSDS,UN38.3,CE,FCC,RoHS(Battery)		
Standard	GB/T 34120-2017, 1EC62477-1 E61000-6-2:2005EN61000-6-4:2007/A1:2011		
Container	20FT sea worthy Container		

Industrial & Commercial ESS(100~1000KWh)



SPECIFICATION

Technical Parameters

Capacity/Ah	280	
Pack quantity/pcs	5	8
Configuration	1P240S	1P384S
Battery voltage range/V	672-864(95%DOD)	1075.2-1382.4(95%DOD)
Nominal voltage/V	768	1228.8
Rated energy/kWh	215	344
Duration/h	≥2	≥2
Weight/kg	2500	3400
Dimension(WxDxH)/mm	1300x1300x2300	
Communication	Ethernet / CAN / RS485	
Operation temperature/°C	Charge:0-55°C / Discharge: -20-55°C	
IP level	IP66	
Certificates	IEC 62619 / IEC 62477 / IEC 61000-6-2/4	

EV Charger

7KW-22KW

IEC
62196

SAE
J1772



V3-Type 2 to type 2 EV Charging cable

- Integrated external mold.
- Excellent waterproof and dust-proof performance.



B2-Portable EV Charger

- New mold, simple and exquisite appearance 2.4" LCD screen; Current switch; Time delay.



MB-Wall EV Charger

- RCD protection: Type B (30mA AC/CCID20+6mA DC) Charging status and working error displayed by LED indicators.



DP-Wall EV Charger

- 7KW-22KW
- IP54
- AC250V/AC480V/AC110-240V
- 16A/32A/40A/48A
- 1Phase/3Phase
- Card swipe/APP/Plug&play



Z2-Wall EV Charger

- 7KW-22KW
- IP54
- AC250V/AC480V/AC110-240V
- 16A/32A/40A/48A
- 1Phase/3Phase
- Card swipe/APP/Plug&play



Z21-Wall EV Charger

- RCD protection: Type B (30mA AC/CCID20+6mA DC) 2.4" LCD color screen. Current switch; Time delay.

GLOBAL CASES

We would like to take this opportunity to express our heartfelt thanks to every dear customer every time we meet. Your support is our motivation, let us create a better tomorrow together!

