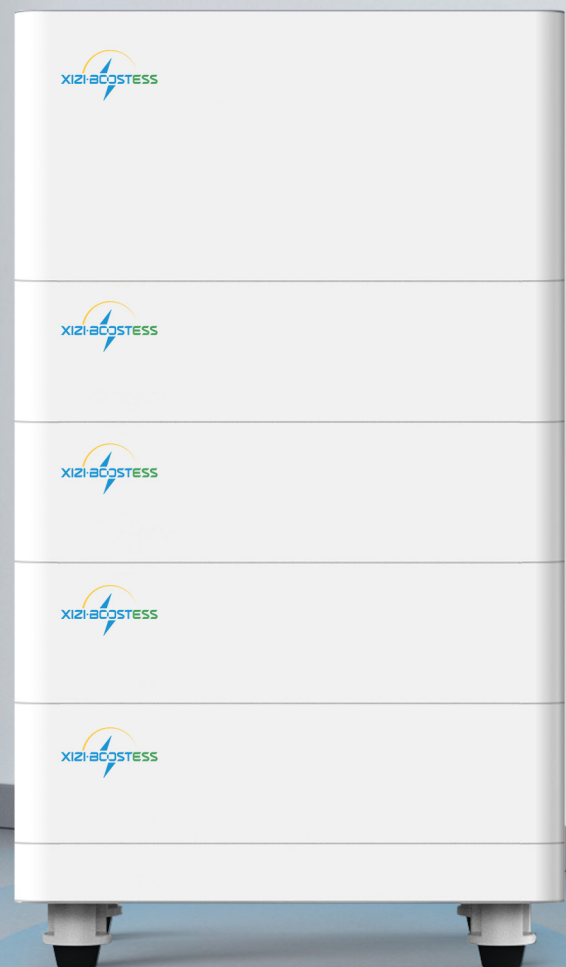




BOOSTESS All-In-One

- ▶ Minimal design
- ▶ Reliable performance
- ▶ Easy to install
- ▶ Multiple security protection



Model

5kW | 10kWh 、 5kW | 15kWh
10kW | 20kWh 、 20kW | 30kWh
20kW | 40kWh

- Tel:+86 571 86925880
- Email: info@boost-ess.com
- Web: www.boost-ess.com
- 7F, Building 13, Xizi Intelligent Industrial Park, No. 1279 Tongxie Road, Shangcheng District, Hangzhou, China.



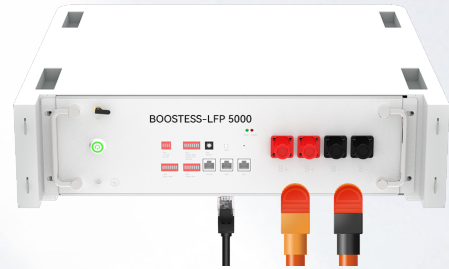
All-In-One Design

Adopt modular design, effectively reduce installation, transportation and later operation and maintenance costs.



Easy to Install

Quick plug - in interface and standardized wiring, convenient installation time saving.



Intelligent monitoring system

In monitoring and independent charge and discharge management of the battery module are realized, and a variety of energy management modes are included to realize intelligent home energy scheduling.



Multiple security protection

Battery modules are equipped with internal electrical isolation system to minimize the probability of battery safety accidents.



High rate cell

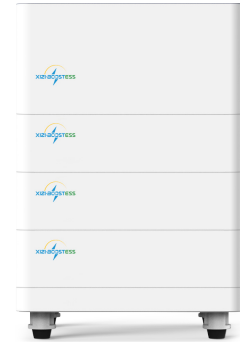
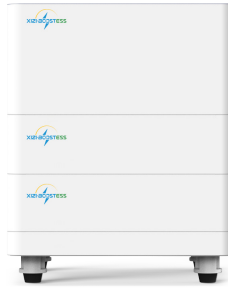
Achieve "less cell, large capacity", battery failure rate can be reduced by more than 50%, higher reliability.



Technical Specifications

Low Voltage Battery

Single Phase Inverter



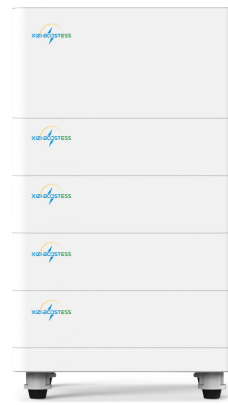
	5kW/10kWh	5kW/15kWh
PV Input		
Max. Input Power (kW)	8.0	8.0
Start-up Voltage(V)	140	140
Max. DC Input Voltage (V)*	550	550
Rated DC Input Voltage (V)	360	360
MPPT Voltage Range (V)	120-500	120-500
No. of MPP Trackers	2	2
No. of DC Inputs per MPPT	1/1	1/1
Max. Input Current (A)	13/13	13/13
Max.Short-circuit Current(A)	14.5/14.5	14.5/14.5
Battery Side		
Battery Type	Lithium Battery(with BMS)	
Battery Voltage Range(V)	48-56	
Max. Charge/Discharge current of Battery Pack (A)	120/120	
Max. Charge/Discharge Current of System (A)	80/80	
Grid Side		
Rated Output Power (kW)	5.0	
Max. Output Apparent Power (kVA)	5.5	
Max. Input Apparent Power (kVA)**	5.5	
Max.Charging Power of Battery(kW)	5.0	
Rated AC Voltage (V)	230V	
Rated AC Frequency (Hz)	50/60	
Max. Output Current (A)	25	
Power Factor	0.8 leading ... 0.8 lagging	
Max.Total Harmonic Distortion	<3% @Rated output power	
Back-up Side		
Rated Output Power (kW)	4.0	
Max. Output Apparent Power (kVA)	5.0	
Max. Output Current (A)	17.4	
UPS Switching Time	<10ms	
Rated Output Voltage (V)	230V	
Rated Output Frequency (Hz)	50/60	
Peak Output Apparent Power (kVA)	4.5, 30s	
Voltage Harmonic Distortion	<5% @Linear load	
General Data		
Over Voltage Category	PV: II; Main: III	PV: II; Main: III
Dimensions (W×H×D mm)	552×688×556	552×829×556
Weight (KG)	177	237
Protection Degree	IP54	IP54
Standby Self-consumption (W)	<20	<26
Topology	Transformerless	Transformerless
Operating Temperature Range (°C)	-20~50	-20~50
Relative Humidity (%)	0~100	0~100
Operating Altitude (m)	2000 (>2000m derating)	2000 (>2000m derating)
Cooling	Smart Fan	Smart Fan
Noise Level (dB)	<25	<25
Communication	CAN, RS485, WiFi/LAN (Optional)	CAN, RS485, WiFi/LAN (Optional)
Protection	DC Reverse Polarity Protection, Battery Input Reberse, Connection Protection, Insulation Resistance Protection, Surge Protection, Over-temperature Protection, Residual Current Protection, Islanding Protection, AC Over-voltage Protection, Overload Protection, AC Short-circuit Protection	

● This product supports a variety of single-phase inverters.

Technical Specifications

High Voltage Battery

Three Phase Inverter



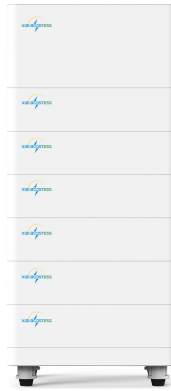
10kW/20kWh

PV Input	
Max. Input Power (kW)	15.0
Start-up Voltage(V)	135
Max. DC Input Voltage (V)*	1000
Rated DC Input Voltage (V)	620
MPPT Voltage Range (V)	200-950
No. of MPP Trackers	2
No. of DC Inputs per MPPT	2/2
Max. Input Current (A)	30/30
Max.Short-circuit Current(A)	40/40
Battery Side	
Battery Type	Lithium Battery(with BMS)
Battery Voltage Range(V)	192-224
Max. Charge/Discharge current of Battery Pack (A)	60/60
Max. Charge/Discharge Current of System (A)	40/40
Grid Side	
Rated Output Power (kW)	10.0
Max. Output Apparent Power (kVA)	11.0
Max. Input Apparent Power (kVA)**	20.0
Max.Charging Power of Battery(kW)	10.0
Rated AC Voltage (V)	3L/N/PE; 220/380V; 230/400V; 240/415V
Rated AC Frequency (Hz)	50/60
Max. Output Current (A)	16.5
Power Factor	0.8 leading ... 0.8 lagging
Max.Total Harmonic Distortion	<3% @Rated output power
Back-up Side	
Rated Output Power (kW)	10
Max. Output Apparent Power (kVA)	11.0
Max. Output Current (A)	16.5
UPS Switching Time	<10ms
Rated Output Voltage (V)	3/N/PE; 220/380V; 230/400V; 240/415V
Rated Output Frequency (Hz)	50/60
Peak Output Apparent Power (kVA)	20, 60s
Voltage Harmonic Distortion	<3% @Linear load
General Data	
Over Voltage Category	PV: II; Main: III
Dimensions (W×H×D mm)	552×970×556
Weight (KG)	305
Protection Degree	IP54
Standby Self-consumption (W)	<42
Topology	Transformerless
Operating Temperature Range (°C)	-20~50
Relative Humidity (%)	0~100
Operating Altitude (m)	2000 (>2000m derating)
Cooling	Smart Fan
Noise Level (dB)	<40
Communication	CAN, RS485, WiFi/LAN (Optional)
Protection	DC Reverse Polarity Protection, Battery Input Reberse, Connection Protection, Insulation Resistance Protection, Surge Protection, Over-temperature Protection, Residual Current Protection, Islanding Protection, AC Over-voltage Protection, Overload Protection, AC Short-circuit Protection

Technical Specifications

High Voltage Battery

Three Phase Inverter



	20kW/30kWh	20kW/40kWh
PV Input		
Max. Input Power (kW)	30.0	30.0
Start-up Voltage(V)	135	135
Max. DC Input Voltage (V)*	1000	1000
Rated DC Input Voltage (V)	620	620
MPPT Voltage Range (V)	200-950	200-950
No. of MPP Trackers	2	2
No. of DC Inputs per MPPT	2/2	2/2
Max. Input Current (A)	30/30	30/30
Max.Short-circuit Current(A)	40/40	40/40
Battery Side		
Battery Type	Lithium Battery(with BMS)	Lithium Battery(with BMS)
Battery Voltage Range(V)	288-336	384-448
Max. Charge/Discharge current of Battery Pack (A)	60/60	60/60
Max. Charge/Discharge Current of System (A)	40/40	40/40
Grid Side		
Rated Output Power (kW)	20.0	
Max. Output Apparent Power (kVA)	22.0	
Max. Input Apparent Power (kVA)**	30.0	
Max.Charging Power of Battery(kW)	20.0	
Rated AC Voltage (V)	3L/N/PE; 220/380V; 230/400V; 240/415V	
Rated AC Frequency (Hz)	50/60	
Max. Output Current (A)	33.5	
Power Factor	0.8 leading ... 0.8 lagging	
Max.Total Harmonic Distortion	<3% @Rated output power	
Back-up Side		
Rated Output Power (kW)	20	
Max. Output Apparent Power (kVA)	22.0	
Max. Output Current (A)	33.5	
UPS Switching Time	<10ms	
Rated Output Voltage (V)	3/N/PE; 220/380V; 230/400V; 240/415V	
Rated Output Frequency (Hz)	50/60	
Peak Output Apparent Power (kVA)	25, 60s	
Voltage Harmonic Distortion	<3% @Linear load	
General Data		
Over Voltage Category	PV: II; Main: III	PV: II; Main: III
Dimensions (W×H×D mm)	552×1252×556	Pack I: 552×970×556 + Pack II: 552×554×556
Weight (KG)	428	Pack I: 308 + Pack II: 260
Protection Degree	IP54	IP54
Standby Self-consumption (W)	<40	<66
Topology	Transformerless	Transformerless
Operating Temperature Range (°C)	-20~50	-20~50
Relative Humidity (%)	0~100	0~100
Operating Altitude (m)	2000 (>2000m derating)	2000 (>2000m derating)
Cooling	Smart Fan	Smart Fan
Noise Level (dB)	<54	<66
Communication	CAN, RS485, WiFi/LAN (Optional)	CAN, RS485, WiFi/LAN (Optional)
Protection	DC Reverse Polarity Protection, Battery Input Reberse, Connection Protection, Insulation Resistance Protection, Surge Protection, Over-temperature Protection, Residual Current Protection, Islanding Protection, AC Over-voltage Protection, Overload Protection, AC Short-circuit Protection	