

50+

Sales countries



CONTACT US



E-mail

info@joulebank.com



Web

joulebank.com



Facebook



LinkedIn

RESIDENTIAL STORAGE SYSTEM

The most reliable residential energy solution



ABOUT US

At Joulebank, we are more than just a manufacturer of residential energy storage equipment – we are pioneers of sustainable power solutions. With a legacy spanning 19 years in the energy industry, Joulebank has solidified its reputation as a trusted name in the field.

Today, we stand as a comprehensive force in the industry, encompassing branding, research and development, production, and sales.

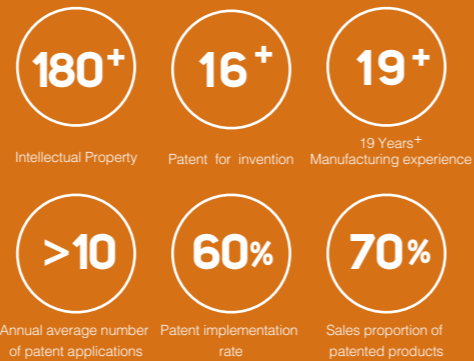
MANUFACTURING EXCELLENCE

► With three production bases spanning 15,000+ square meters, our precision and care yield an annual output of 200,000 sets, exceeding 1GW+ capacity.



R&D

► Innovation fuels us. Over 38% of our team focuses on R&D, investing more than 10% of total sales to pioneer cutting-edge energy storage technologies that lead the market.



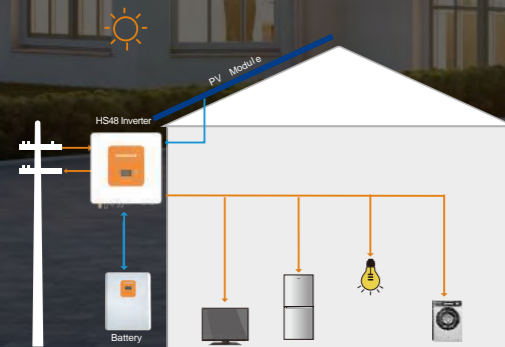
	01	
	INVERTER	
	JB-HS48 Series	01 / 02
	JB-HTH Series	03 / 04
	JB-FS48 Series	05 / 06
	JB-FS Series	07 / 08
	JB-FS-US Series	09 / 10
	JB-FST Series	11 / 12
	JB-FST-US Series	13 / 14
	JB-FP-US Series	15 / 16
	JB-HPH Series	17 / 18
	02	
	ENERGY STORAGE SYSTEM	
	JB-EFS Series	19 / 20
	JB-EHS Series	21 / 22
	JB-P Series	23 / 24
	03	
	BATTERY PACK	
	JB-BW Series	25 / 26
	JB-BS Series	27 / 28
	JB-BSH Series	29 / 30
	JB-BR Series	31 / 32
	JB-BRH Series	33 / 34



JB-HS48 Series

Single-Phase Hybrid Inverter

JB-HS48 series products are single-phase hybrid inverters of low-voltage, they are suitable for home photovoltaic energy storage systems and have the ability to intelligently control energy flow. They are an all-round system for maximum energy flexibility.



IP65 rating for outdoor installation



Dual MPPT trackers



Remote monitoring, upgrades, and automatic battery management



Multiple operating modes: grid-tied, off-grid, and grid-tied with backup



Zero export function supported



A wide range of MPPT voltage is available: 90-580V

JB-HS48 Series

MODEL	JB4K-HS48	JB4K6-HS48	JB5K-HS48	JB6K-HS48
Nominal Apparent Power Output to Utility Grid (VA)	4000	4600	5000	6000
Nominal Battery Voltage (V)	48			
BATTERY INPUT DATA				
Battery Type	Lithium/Lead-acid			
Battery Voltage Range (V)	42-58			
Charging mode	Three-stage charging mode or Self-adaption to BMS			
Max. Continuous Charging/Discharging Current (A)	85	100		
PV STRING INPUT DATA				
Max. Input Power (W)	6000	6900	7500	9000
Max. Input Voltage (V)	600			
MPPT Operating Voltage Range (V)	90-580			
Max. Input Current per MPPT (A)	13			
Number of MPPTs/Number of Strings per MPPT	2/1			
AC OUTPUT DATA(ON-GRID)				
Max. Apparent Power Output to Utility Grid (VA)	4400	5060	5500	6600
Max. Apparent Power from Utility Grid (VA)	8000	9200	10000	10000
Nominal Output Voltage (V)	220 / 230 / 240(180-276)			
Nominal AC Grid Frequency (Hz)	50/60 (45-55/55-65)			
Power Factor	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
AC OUTPUT DATA (BACK-UP)				
Max. Output Nominal Power (VA)	4000	4600	5000	
Peak Power (VA)/time (s)	4800/60	5520/60	6000/60	
Switch time	10ms			
Max. Output Current (A)	18.2	20.9	22.7	22.7
Nominal Output Voltage (V)	230 (L / N / PE)			
Nominal Output Frequency (Hz)	50/60			
Output THDv (@Linear Load)	<3%			
EFFICIENCY				
Max. Efficiency	97.6%	97.8%		98.0%
European Efficiency	97.2%	97.3%		97.5%
Max. Battery to AC Efficiency				94.6%
GENERAL DATA				
Protection	PV reverse polarity protection/PV insulation detection/Ground fault monitoring/Overcurrent protection/Overvoltage protection, SPD protection			
Ambient temperature range (°C)	-30°C to +60°C(Derating above 45°C)			
Max. Operating Altitude (m)	4000,(>2000 Derating), 0~100%			
Cooling Method	Nature Convection			
Display / Communication	LCD / RS485、CAN2.0、WiFi Optional: GRRS			
Dimension W×H×D (mm) / Weight (Kg)	510*510*188mm / 23.5kg			
Topology	Battery Isolation			
Self-consumption at Night (W)	<10			
Ingress Protection Rating / Mounting Method	IP65 / Wall Bracket			
Certifications & Standards	EN50549-1, G98, G99, VDE-AR-N 4105, DIN VDE V 0124-100, IEC 62109-1, IEC 62109-2, IEC 62477, EN 61000-6-1, EN 61000-6-3			

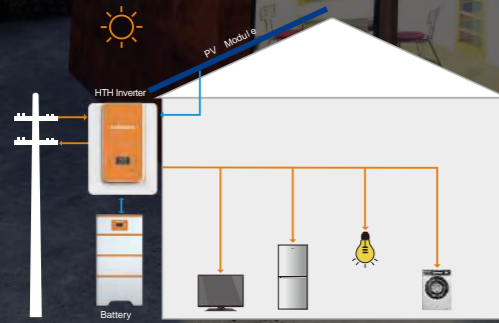
NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.




JB-HTH Series

Three-Phase Hybrid Inverter


The JB-HTH series hybrid inverters are three-phase energy storage machines that can be used in residential, industrial, and commercial solar energy storage systems. The products provide a broad application with 100% unbalanced output and long-term system stability and safety. The JB-HTH series hybrid inverters are an all-around intelligent solution designed to increase energy flexibility while minimizing self-consumption.




 High-frequency design with a high power density

 Type II SPD built-in on the DC side

 IP65 rating for outdoor installation

 A wide range of MPPT voltage is available: 90-580V

 Multiple operating modes: grid-tied, off-grid, and grid-tied with backup

 Remote monitoring, upgrades, and automatic battery management

JB-HTH Series

MODEL	JB8K-HTH	JB10K-HTH
Back-up Nominal Apparent Power (VA)	8000	10000
Battery Voltage Range (V)	180-600	
BATTERY INPUT DATA		
Battery Type	Lithium/Lead-acid	
Charging mode	Three-stage charging mode or Self-adaption to BMS	
Max. Charging/Discharging Power (W)	9600	10000
Max. Continuous Charging/Discharging Current (A)	25	
PV STRING INPUT DATA		
Max. Input Power (W)	12000	15000
Max. Input Voltage (V)	1000	
MPPT Operating Voltage Range (V)	90-580	
Max. Input Current per MPPT (A)	16	
Number of MPPTs/Number of Strings per MPPT	2 / 1	
AC OUTPUT DATA(ON-GRID)		
Nominal Apparent Power Output to Utility Grid (VA)	8000	10000
Max. Apparent Power from Utility Grid (VA)	15000	15000
Nominal Output Voltage (V)	220/ 380V, 230/ 400V, 3L/ N/ PE	
Nominal AC Grid Frequency (Hz)	50/60	
Power Factor	0.99 (Adjustable from 0.8 leading to 0.8 lagging)	
AC OUTPUT DATA (BACK-UP)		
Max. Output Apparent Power (VA)	8000 (16000@60sec)	10000 (16500@60sec)
Max. Output Current (A)	13.5	16.5
Nominal Output Voltage (V)	220/ 380V, 230/ 400V, 3L/ N/ PE	
Nominal Output Frequency (Hz)	50/60	
EFFICIENCY		
Max. Efficiency	98.20%	
European Efficiency	97.50%	
Max. Battery to AC Efficiency	97.5%	
GENERAL DATA		
Protection	PV Insulation Resistance Detection, Residual Current Monitoring, PV Reverse Polarity Protection, Anti-islanding Protection, AC Overcurrent Protection, AC Short Circuit Protection, AC Overvoltage Protection, DC Switch, Remote Shutdown, SPD protection	
Ambient temperature range (°C)	-30°C to +60°C(Derating above 45°C)	
Max.Operating Altitude (m) / Relative Humidity	4000,(>2000 Derating) / 0~95%	
Cooling Method	Nature Convection	
Display / Communication	LCD / RS485, CAN2.0, Ethernet Optional: WiFi	
Dimension W×H×D (mm) / Weight (Kg)	440*525*200mm / 24kg	
Topology	Non-isolated	
Self-consumption at Night (W)	<20	
Ingress Protection Rating / Mounting Method	IP65 / Wall Bracket	
Certifications & Standards	IEC62109、IEC62116、IEC61727、IEC61683、IEC62040、IEC60068、EN61000、EN50549/EN50438、VDE-AR-4105、VDE-AR-0126、CEI 0-21、G99/G98、TR321/TR322、NRS 097-2-1、UTE C15-712-1、AS/NZS 4777	

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

JB-FS48 Series

Single-Phase Off-grid Inverter

The JB-FS48 series off-grid inverters are the new generation of all-in-one off-grid solar charge inverters that combine solar and grid charging functions as well as AC sine wave output. The inverters are ideal for usage in off-grid or unstable grid locations, such as power-shortage families, nomadic areas, telecom base stations, islands, border checkpoints, scenic management offices, newsstands, and so on.



Pure sine wave output



MPPT solar charging controller built-in



High-frequency design with a high power density, small size, excellent efficiency, and minimal no-load loss



The maximum PV array open circuit voltage is 500VDC



(optional) WiFi remote monitoring

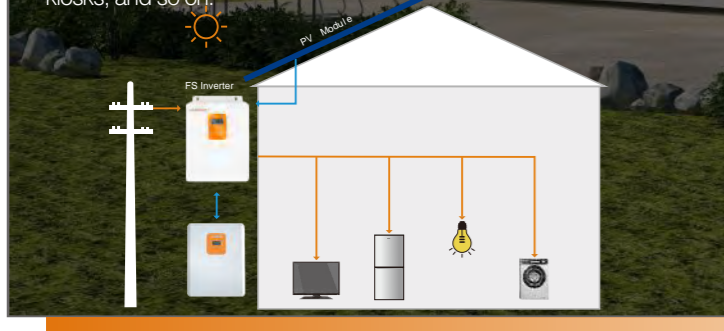
MODEL	JB3K5-FS48	JB5K-FS48
Rated Power (W)	3500	5000
Nominal Battery Voltage (V)	48	
BATTERY		
Battery Type	Lithium/Lead-acid	
Max.Solar Charging Current (A)	60	80
*Max.AC Charging Current (A) *	40	60
Max.Hybrid Charging Current (A)	60	80
Max.Battery to AC Efficiency	93%	
PV INPUT		
Max.PV Array Power(W)	3500	5000
Max.Voltage of Open Circuit(V)	500	
MPPT Voltage Range(V)	120-450A	
AC INPUT		
Rated Input Voltage	230	
Input Voltage Range (V)	170-280Vac(For Personal Computer);90-280Vac(For Home Appliances)	
Frequency Range (Hz)	50/60 (auto-sensing)	
AC OUTPUT		
Max.Peak Power (VA)	7000	10000
AC Voltage Regulation (Batt. Mode)	230Vac±5%	
Rated AC Frequency(Hz)	50/60	
Max.Efficiency	95%	
Waveform	Pure Sine Wave	
Switch Time	10ms(For Personal Computer);20ms(For Home Appliances)	
GENERAL DATA		
Communication Port	USB, RS485, CAN, Dry-contact Optional: WIFI, Bluetooth	
Dimensions (mm)	126*300*427	
Weight (kg)	9	10
Protection Degree	IP21	
Operating Temperature Range	(-10°C to 50°C)	
Noise	<55dB	
Cooling Method	Smart Fan Cooling	
Certification	CE	

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

JB-FS Series

Single-Phase Off-grid Inverter

The JB-FS series off-grid inverters are revolutionary all-in-one off-grid solar charge inverters that combine solar energy storage, means charging, and AC sine wave output. The inverters feature a rapid response speed, high reliability, and a high industrial standard due to DSP control and an innovative control algorithm. They are ideal for usage in locations with no or unstable power grids, such as power-shortage families, nomadic areas, communication base stations, islands, border checkpoints, scenic management offices, newspaper kiosks, and so on.



Pure sine wave output, suitable to all loads



High-frequency design with a high power density, small size, excellent efficiency, and minimal no-load loss



MPPT controller built-in, integrated solar charging, and mains complement design



Multi-protection function (overload, overheating, short circuit protection, and so on)



Battery charging and discharging voltage parameters adjustable, suitable for different battery types

MODEL	JB3K2-FS24	JB5K-FS48	JB7K2-FS48	JB8K-FS48
Rated Power (W)	3200	5000	7200	8000
Nominal Battery Voltage (V)	24		48	
BATTERY				
Battery Type	Lithium/Lead-acid			
Voltage Range(V)	21-30		42-60	
Max.MPPT Charging Current (A)	100	100	150	
Max.AC Charging Current (A)	60	60	80	
Max.Hybrid Charging Current (A)	100	100	150	
Max.Output Efficiency	94% (Peak value)			
PV INPUT				
Num. of MPPT Trackers	1		2	
Max.PV Array Power(W)	4000	6000	9000	
Max.Voltage of Open Circuit(V)	500			
MPPT Voltage Range(V)	120-450			
AC INPUT				
Rated AC input voltage	230			
Input Voltage Range (V)	170-280Vac(For Personal Computer);90-280Vac(For Home Appliances)			
Frequency Range (Hz)	50/60 (auto-sensing)			
AC OUTPUT				
Max.Peak Power (VA)	9600	15000	21600	24000
Rated Output Voltage(V)	220VAC±2% / 230VAC±2% / 240VAC±2%			
Rated AC Frequency(Hz)	50Hz±0.5 or 60Hz±0.5			
Waveform	Pure Sine Wave			
Switch Time	10ms(typical)			
GENERAL DATA				
Working Mode	Mains priority/PV priority/Battery priority(Can be set)			
Display	LCD+LED			
Communication(Optional)	RS485/APP(WIFI monitoring or GPRS monitoring)			
Dimensions (mm)	400x315x101.5	440x342x101.5	525x355x115	
Weight (kg)	8.5	10	14	
Protection Degree	IP21			
Operating Temperature Range	(-10°C~40°C)			
Humidity	0%~95% (No condensation)			
Elevation	2000m(More than derating)			
Noise	≤55dB			
Cooling Method	Smart Fan Cooling			

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.



JB-FS-US Series

Single-Phase Off-grid Inverter

The JB-FS-US series off-grid inverters are revolutionary all-in-one off-grid solar charge inverters that combine solar energy storage, means charging, and AC sine wave output. The inverters feature a rapid response speed, high reliability, and a high industrial standard due to DSP control and an innovative control algorithm. They are ideal for usage in locations with no or unstable power grids, such as power-shortage families, nomadic areas, communication base stations, islands, border checkpoints, scenic management offices, newspaper kiosks, and so on.



Pure sine wave output, suitable to all loads



High-frequency design with a high power density, small size, excellent efficiency, and minimal no-load loss



Multi-protection function (overload, overheating, short circuit protection, and so on)



MPPT controller built-in, integrated solar charging, and mains complement design



Battery charging and discharging voltage parameters adjustable, suitable for different battery types

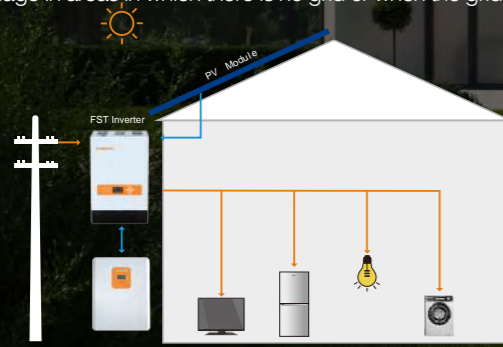
MODEL	JB3K-FS24-US	JB5K-FS48-US
Rated Power (W)	3000	5000
Nominal Battery Voltage (V)	24	48
BATTERY		
Battery Type	Lithium/Lead-acid	
Voltage Range(V)	20~33	40~60
Max.MPPT Charging Current (A)	60	80
Max.AC Charging Current (A)	40	40
Max.Hybrid Charging Current (A)	100	80
Max. Battery Inverter Efficiency	92% (Peak value)	
PV INPUT		
Num. of MPPT Trackers	1	
Max.PV Array Power(W)	1600	5200
Max.Input Current(A)	40	18
Max.Voltage of Open Circuit(V)	100	500
MPPT Voltage Range(V)	30-85	120-450
MPPT Tracking Efficiency	99.9%	
AC INPUT		
Input Voltage Range (V)	90~140	
Frequency Range (Hz)	50/60	
Bypass Overload Current (A)	40	
AC OUTPUT		
Max.Peak Power (VA)	6000	10000
Rated Output Voltage(V)	120 (L/N/PE single phase)	
Rated AC Frequency(Hz)	50/60	
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
GENERAL DATA		
Communication Port	RS485/CAN/USB/Dry contact Optional: Wi-Fi/GPRS	
Dimensions (mm)	378*280*103	426*322*126
Weight (kg)	6.8	10.9
Protection Degree	IP21	
Operating Temperature Range	(-15°C~55°C)	
Noise	<60dB	
Cooling Method	Internal Fan	

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

JB-FST Series

Low Frequency Power Inverter

The JB-FST series Low-Frequency Power Inverters are economical pure sine wave inverters that provide solar charging energy storage, grid charging energy storage, AC sine wave output, and other features. They enable the inverters to have a rapid response speed, high reliability, and a high industrial standard as a consequence of the DSP control application and advanced control algorithm. The inverters are appropriate for usage in areas in which there is no grid or when the grid is unstable.



Pure sine wave output



0-30A adjustable mains charging current



Three operating modes (utility priority, battery priority, and eco mode)



Friendly appearance design, optional integrated PWM, and MPPT controller



Supported by a diesel generator, suitable for tough power environments



Overload/overheating/short-circuit Protection

MODEL	JB1K-FST 12/24/48	JB1K5-FST 12/24/48	JB2K-FST 12/24/48	JB3K-FST 24/48	JB4K-FST 24/48	JB5K-FST48	JB6K-FST48
Rated Power (W)	1000W	1500W	2000W	3000W	4000W	5000W	6000W
Nominal Battery Voltage (V)	12/24/48		24/48		48		
BATTERY							
Battery Type	Lithium/Lead-acid						
Voltage Range(V)	10.5~15(single battery voltage)						
Max.MPPT Charging Current (A)	10~60 (PWM或MPPT)			10~60(PWM) / 10~100(MPPT)			
Max.AC Charging Current (A)	0~30A(depending on model)						
Max.Output Efficiency	≥85%						
PV INPUT							
Max.PV Array Power(W)	12V: 140W(10A)/280W(20A)/420W(30A)/560W(40A)/700W(50A)/840W(60A) /1120W(80A)/1400W(100A); 24V: 280W(10A)/560W(20A)/840W(30A)/1120W(40A)/1400W(50A)/1680W(60A)/2240W(80A)/2800W(100A); 48V: 560W(10A)/1120W(20A)/1680W(30A)/2240W(40A)/2800W(50A)/3360W(60A)/4480W(80A)/5600W(100A)						
Max.Voltage of Open Circuit(V)	PWM: 50(12/24V); 100(48V) / MPPT: 150						
PV input voltage range(V)	PWM: 15V-44V(12V); 30V-44V(24V); 60V-88V(48V) MPPT: 15V-120V(12V); 30V-120V(24V); 60V-120V(48V)						
AC INPUT							
Input Voltage Range (V)	170~275 (220VAC) / 180~285 (230VAC) / 190~295 (240VAC)						
Frequency Range (Hz)	45~55(50Hz) / 55~65(60Hz)						
AC Charging Method	Three-stage (constant current, constant voltage, floating charge)						
AC OUTPUT							
Max.Peak Power (VA)	3000	4000	6000	9000	12000	15000	18000
Rated Output Voltage(V)	220±2% / 230±2% / 240±2%						
Rated AC Frequency(Hz)	50/60±1%						
Waveform	Pure Sine Wave						
Switch Time	≤4ms						
GENERAL DATA							
Working Mode	Inverter priority/mains priority/energy saving mode (can be set)						
Display	LCD						
Communication(Optional)	RS485/APP(WIFI monitoring or GPRS monitoring)RS485						
Dimensions (mm)	500*300*140				530*335*150		
Weight (kg)	12	13.5	18	20	22	24	26
Protection Degree	IP21						
Operating Temperature Range	(-10°C~40°C)						
Humidity	0%~95% (No condensation)						
Elevation	2000m(More than derating)						
Noise	≤55dB						
Cooling Method	Smart Fan Cooling						

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.



JB-FST-US Series

Low Frequency Power Inverter

The JB-FST-US series low-frequency power inverters are economical pure sine wave inverters with solar charging energy storage, grid charging energy storage, AC sine wave output, and other features. They enable the inverters to have a rapid response speed, high reliability, and a high industrial standard as a consequence of the DSP control application and advanced control algorithm. The inverters are appropriate for usage in places where there is no grid or when the grid is unstable.



Pure sine wave output



0-30A adjustable mains charging current



Three operating modes (utility priority, battery priority, and eco mode)



Friendly appearance design, optional integrated PWM, and MPPT controller



Supported by a diesel generator, suitable for tough power environments



Overload/overheating/short-circuit Protection

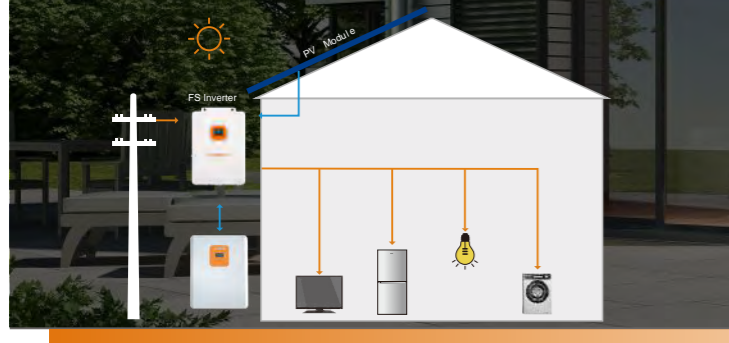
MODEL	JB1K-FST 12/24/48-US	JB1K5-FST 12/24/48-US	JB2K-FST 12/24/48-US	JB3K-FST 24/48-US	JB4K-FST 24/48-US	JB5K-FST48-US	JB6K-FST48-US
Rated Power (W)	1000W	1500W	2000W	3000W	4000W	5000W	6000W
Nominal Battery Voltage (V)	12/24/48		24/48		48		
BATTERY							
Battery Type	Lithium/Lead-acid						
Voltage Range(V)	10.5~15(single battery voltage)						
Max.MPPT Charging Current (A)	10~60 (PWM或MPPT)			10~60(PWM) / 10~100(MPPT)			
Max.AC Charging Current (A)	0~30A(depending on model)						
Max.Output Efficiency	≥85%						
PV INPUT							
Max.PV Array Power(W)	12V: 140W(10A)/280W(20A)/420W(30A)/560W(40A)/700W(50A)/840W(60A) /1120W(80A)/1400W(100A); 24V: 280W(10A)/560W(20A)/840W(30A)/1120W(40A)/1400W(50A)/1680W(60A)/2240W(80A)/2800W(100A); 48V: 560W(10A)/1120W(20A)/1680W(30A)/2240W(40A)/2800W(50A)/3360W(60A)/4480W(80A)/5600W(100A)						
Max.Voltage of Open Circuit(V)	PWM: 50(12/24V); 100(48V) / MPPT: 150						
MPPT Voltage Range(V)	15-120(12V); 30-120(24V); 60-120(48V)						
AC INPUT							
Input Voltage Range (V)	85~138 (110VAC) / 95~148 (120VAC)						
Frequency Range (Hz)	45~55(50Hz) / 55~65(60Hz)						
AC Charging Method	Three-stage (constant current, constant voltage, floating charge)						
AC OUTPUT							
Max.Peak Power (VA)	3000	4500	6000	9000	12000	15000	18000
Rated Output Voltage(V)	110±2% / 120±2%						
Rated AC Frequency(Hz)	50/60±1%						
Waveform	Pure Sine Wave						
Switch Time	≤4ms						
GENERAL DATA							
Working Mode	Inverter priority/mains priority/energy saving mode (can be set)						
Display	LCD						
Communication(Optional)	RS485/APP(WIFI monitoring or GPRS monitoring)RS485						
Dimensions (mm)	500*300*140				530*335*150		
Weight (kg)	12	13.5	18	20	22	24	26
Protection Degree	IP21						
Operating Temperature Range	(-10°C~40°C)						
Humidity	0%~95% (No condensation)						
Elevation	2000m(More than derating)						
Noise	≤55dB						
Cooling Method	Smart Fan Cooling						

NOTE:
Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

JB-FP-US Series

Split-Phase Off-grid Inverter

The JB-FP series split-phase off-grid inverters are built specifically for the US market. They employ DSP control via a sophisticated control algorithm and offer high response speed, reliability, and industry-standard qualities. Applicable to low-voltage energy storage systems for North American households.



Pure sine wave output



8-10kw load power to fulfill the needs of most families



Dual MPPT with a maximum efficiency of 99.9%



Solar Charger Controller with a charging current of up to 200 A



BMS connectivity with Li-ion batteries is supported

MODEL	JB8K-FP48-US	JB10K-FP48-US
Rated Power (W)	8000	10000
Nominal Battery Voltage (V)	48	
BATTERY		
Battery Type	Lithium/Lead-acid	
Voltage Range(V)	40-60	
Max.MPPT Charging Current (A)	200	
Max.AC Charging Current (A)	100	120
Max.Hybrid Charging Current (A)	180	200
Max. Battery Inverter Efficiency	92% (Peak value)	
PV INPUT		
Num. of MPPT Trackers	2	
Max.PV Array Power(W)	11000	
Max.Input Current(A)	22/22	
Max.Voltage of Open Circuit(V)	500	
MPPT Voltage Range(V)	125-425	
MPPT Tracking Efficiency	99.9%	
AC INPUT		
Input Voltage Range (V)	90-140	
Frequency Range (Hz)	50/60	
Bypass Overload Current (A)	63	
AC OUTPUT		
Max.Peak Power (VA)	16000	20000
Rated Output Voltage(V)	120/240(L1/L2/N/PE split phase)	
Rated AC Frequency(Hz)	50/60	
Waveform	Pure Sine Wave	
Switch Time	10ms(typical)	
GENERAL DATA		
Communication Port	RS485/CAN/USB/ Dry contact Optional:Wi-Fi / GPRS	
Dimensions (mm)	620*435*130	
Weight (kg)	27	
Protection Degree	IP21	
Operating Temperature Range	(-10~55°C), >45°C derated	
Noise	<60dB	
Cooling Method	Internal Fan	
Certification	IEC62109-1, IEC62109-2,UL1741, EN61000-6-1,EN61000-6-3, FCC 15 class B,RoHS	


NOTE:
Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.


JB-HPH Series


Split Phase Hybrid Inverter


The JB-HPH series high-voltage hybrid inverters were developed specifically for the American market. They are made up of an inverter and a transformer. They are appropriate for large-capacity residential energy storage systems in North America and have a battery voltage range of 85-400V.




 UL certification, diesel generator input source support

 High-frequency design with a high power density

 Remote monitoring, upgrades, and automatic battery management

 Dual MPPT trackers with a maximum effectiveness of 98.4%

 IP65 rating for outdoor installation

 Multiple operating modes: grid-tied, off-grid, and grid-tied with backup

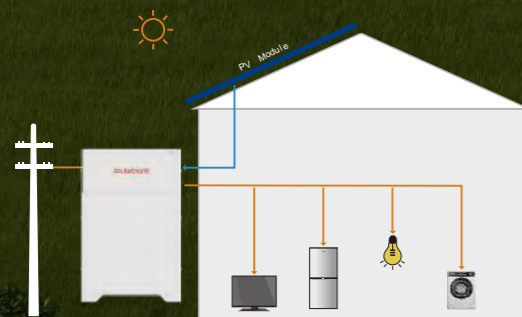
MODEL	JB8K-HPH	JB10K-HPH	JB12K-HPH
Back-up Nominal Apparent Power (VA)	8000	10000	12000
Battery Voltage Range (V)	85-400		
BATTERY INPUT DATA			
Battery Type	Lithium/Lead-acid		
Charging mode	Three-stage charging mode or Self-adaption to BMS		
Max. Continuous Charging/Discharging Current (A)	80		
PV STRING INPUT DATA			
Max. Input Power (W)	10400	13000	15600
Max. Input Voltage (V)	500		
MPPT Operating Voltage Range (V)	90-580		
Max. Input Current per MPPT (A)	13		
Number of MPPTs/Number of Strings per MPPT	4 / 1	4 / 1	4 / 1
AC OUTPUT DATA (ON-GRID)			
Nominal Apparent Power Output to Utility Grid (VA)	8000	10000	12000
Max. Apparent Power from Utility Grid (VA)	16000	20000	24000
Nominal Output Voltage (V)	110-120/220-240V split phase, 1Ø, 230 1 phase		
Nominal AC Grid Frequency (Hz)	50/60		
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
AC OUTPUT DATA (BACK-UP)			
Max. Output Apparent Power (VA)	8800	11000	12000
Peak Power (VA)	2 times of rated power, 10s		
Max. Output Current (A)	36.4	45.4	50
Nominal Output Voltage (V)	110-120/220-240V split phase, 1Ø, 230 1 phase		
Nominal Output Frequency (Hz)	50/60 (±0.5%)		
EFFICIENCY			
Max. Efficiency	97.70%	97.80%	98.00%
European Efficiency	97.30%	97.30%	97.50%
Max. Battery to AC Efficiency	97.00%	97.00%	97.50%
GENERAL DATA			
Protection	PV Insulation Resistance Detection, Residual Current Monitoring, PV Reverse Polarity Protection, Anti-islanding Protection, AC Overcurrent Protection, AC Short Circuit Protection, AC Overvoltage Protection, DC Switch, Remote Shutdown, SPD protection		
AFCI	Optional		
Operating Temperature Range (°C)	-25~60		
Max. Operating Altitude (m) / Relative Humidity	3000, (>2000 Derating) / 0~95%		
Cooling Method	Nature Convection		
Display / Communication	LCD/LED & APP, RS485;		
Dimension W×H×D (mm) / Weight (Kg)	530*660*200mm / 32kg		
Self-consumption at Night (W)	<20		
Ingress Protection Rating / Mounting Method	IP65 / Wall Bracket		
Certifications & Standards	UL1741SA all options, UL1699B, CSA 22.2, FCC Part 15 Class, IEEE 1547, Rule 21		


NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.


JB-EFS Series

Residential Off-grid Energy Storage System


JB-EFS Series is an all-in-one household energy storage system. The system is designed in a modular structure, with single-phase hybrid inverter modules and battery extension modules. Meanwhile, each energy storage module is internally linked to the advanced BMS system and can be easily expanded to meet personal needs, or merged into a maximum of 30kWh battery pack. Lithium batteries with excellent performance and a long lifespan are well employed in this system.



 Modular structure, flexible battery capacity options

 Smart fan cooling and built-in MPPT charge controller

 Intelligent BMS, realizing stack self-identification

 Pure sine wave output, minimal risk to devices

 Home style, fashion appearance

 (Optional) WiFi remote monitoring

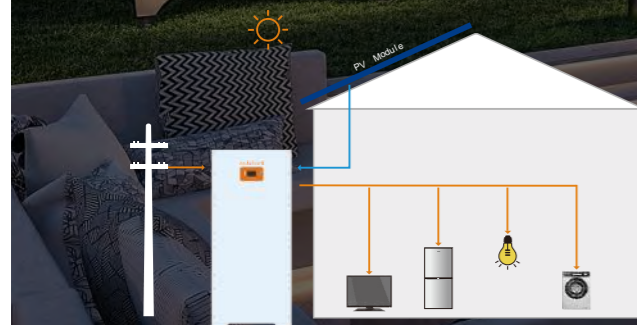
MODEL	JB-EFS510	JB-EFS515	JB-EFS520	JB-EFS525	JB-EFS530
Rated Capacity [kWh]	10.24	15.36	20.48	25.6	30.72
Nominal Apparent Power (VA)	5000				
Nominal Battery Voltage (V)	51.2				
Dimensions (LxWxH) [mm]	693*160*1070	693*160*1070	693*160*1070	693*160*1430	693*210*1430
			693*160*770	693*160*770	693*160*1130
Weight [kg]	147	200	116+106	169+106	200+188
BATTERY INPUT DATA					
Battery Type	Lithium				
Battery Voltage Range (V)	42-58				
Max. Continuous Charging/Discharging Current (A)	100				
PV STRING INPUT DATA					
Max. Input Power (W)	5000				
Max. Input Voltage (V)	500				
MPPT Operating Voltage Range (V)	120-450				
Max. Input Current per MPPT (A)	19				
Number of MPPTs/Number of Strings per MPPT	1				
AC OUTPUT DATA					
Max. Output Nominal Power (VA)	5000				
Peak Power (VA)/time (s)	5 S@≥130% Load; 10 S@105%~130% Load				
Switch time	10ms(For Personal Computer); 20ms(For Home Appliances)				
Max. Output Current (A)	22.7				
Nominal Output Voltage (V)	230 (L / N / PE)				
Nominal Output Frequency (Hz)	50/60				
Output THDv (@Linear Load)	<3%				
EFFICIENCY					
Max. Efficiency	96%				
Max. Battery to AC Efficiency	93%				
GENERAL DATA					
Protection	Overcurrent protection/Overvoltage protection/Overtemperature protection/ SPD protection				
Ambient temperature range (°C)	-10°C to +50°C				
Max. Operating Altitude (m)/ Relative Humidity	4000, (>2000 Derating)/ 5~95%				
Cooling Method	Smart Fan Cooling				
Display /Communication	LCD / USB,RS485,CAN,Dry-contact, Optional: WiFi, bluetooth				
Noise Emission (dB)	<55				
Topology	Battery Isolation				
Self-consumption at Night (W)	<10				
Ingress Protection Rating/ Mounting Method	IP21				
Certifications & Standards	CE				

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

JB-EHS Series

Residential Hybrid Energy Storage System

JB-EHS Series is an all-in-one household hybrid energy storage system. The system features a modular architecture that includes single-phase hybrid inverter modules and battery extension modules that are internally connected with the intelligent BMS, allowing it to be readily combined into a system of the user's desired capacity.



Highly integrated all-in-one home storage system



IP65 rating for outdoor installation



Flexible modular design, personalized energy solution



Easy-to-read screen, remote access and control



Home style, fashion appearance



Dual MPPT functionality, higher energy harvested

JB-EHS Series

MODEL	JB-EHS510	JB-EHS515	JB-EHS520	JB-EHS525	JB-EHS530
Rated Capacity [kWh]	10.24	15.36	20.48	25.6	30.72
Nominal Apparent Power (VA)	5000				
Nominal Battery Voltage (V)	51.2				
Dimensions (LxWxH) [mm]	693*210*1190	693*210*1550	693*210*1190 693*180*920	693*210*1550 693*180*920	693*210*1550 693*180*1280
Weight [kg]	147	200	147+135	200+135	200+188
BATTERY INPUT DATA					
Battery Type	Lithium				
Battery Voltage Range (V)	42-58				
Max. Continuous Charging/Discharging Current (A)	100				
PV STRING INPUT DATA					
Max. Input Power (W)	7500				
Max. Input Voltage (V)	600				
MPPT Operating Voltage Range (V)	90-580				
Max. Input Current per MPPT (A)	13				
Number of MPPTs/Number of Strings per MPPT	2/1				
AC OUTPUT DATA (ON-GRID)					
Max. Apparent Power Output to Utility Grid (VA)	5500				
Max. Apparent Power from Utility Grid (VA)	10000				
Nominal Output Voltage (V)	220 / 230 / 240(180-276)				
Nominal AC Grid Frequency (Hz)	50/60 (45-55/55-65)				
Power Factor	0.99 (Adjustable from 0.8 leading to 0.8 lagging)				
Max. Total Harmonic Distortion	<3%				
AC OUTPUT DATA (BACK-UP)					
Max. Output Nominal Power (VA)	5000				
Peak Power (VA)/time (s)	6000/60				
Switch time	10ms				
Max. Output Current (A)	22.7				
Nominal Output Voltage (V)	230 (L / N / PE)				
Nominal Output Frequency (Hz)	50/60				
Output THDv (@Linear Load)	<3%				
EFFICIENCY					
Max. Efficiency	97.8%				
European Efficiency	97.3%				
Max. Battery to AC Efficiency	94.6%				
GENERAL DATA					
Protection	PV reverse polarity protection/PV insulation detection/Ground fault monitoring /Overcurrent protection/Overvoltage protection/ SPD protection				
Ambient temperature range (°C)	-20°C to +50°C(Derating above 45°C)				
Max. Operating Altitude (m)/ Relative Humidity	4000, (>2000 Derating)/ 0~100%				
Cooling Method	Nature Convection				
Display /Communication	LCD / Optional: WiFi/WIFI+bluetooth				
Noise Emission (dB)	<30				
Topology	Battery Isolation				
Self-consumption at Night (W)	<10				
Ingress Protection Rating/ Mounting Method	IP65/ Wall Bracket				
Certifications & Standards	IEC62109、IEC62116、IEC61727、IEC61683、IEC62040、IEC60068、EN61000、EN50549/EN50438、VDE-AR-4105、VDE-AR-0126、CEI 0-21、G99/G98、TR321/TR322、NRS 097-2-1、UTE C15-712-1、AS/NZS 4777				

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.



JB-P Series

Portable Power Station

The JB-P series mini power station is a comprehensive energy storage system that combines power generation, storage, and usage. It can be powered by both solar energy and the grid. It features an inverter, a solar charge controller, and a DC/DC converter integrated in, allowing it to power electrical devices directly during power outages. The product is low-maintenance, requires no fuel, produces no noise, and is portable. It is ideal for the house, business, industry, breeding, planting, field operations, camping tourist, night markets, and so on.



Plug and play, simple operation



Smart energy management, safe and efficient



Portable trolley design with smooth wheels



Wide array of ports, USB, AC, Type-C, UPS



Easy-to-read screen, friendly user experience



Pure sine wave output, minimal risk to devices

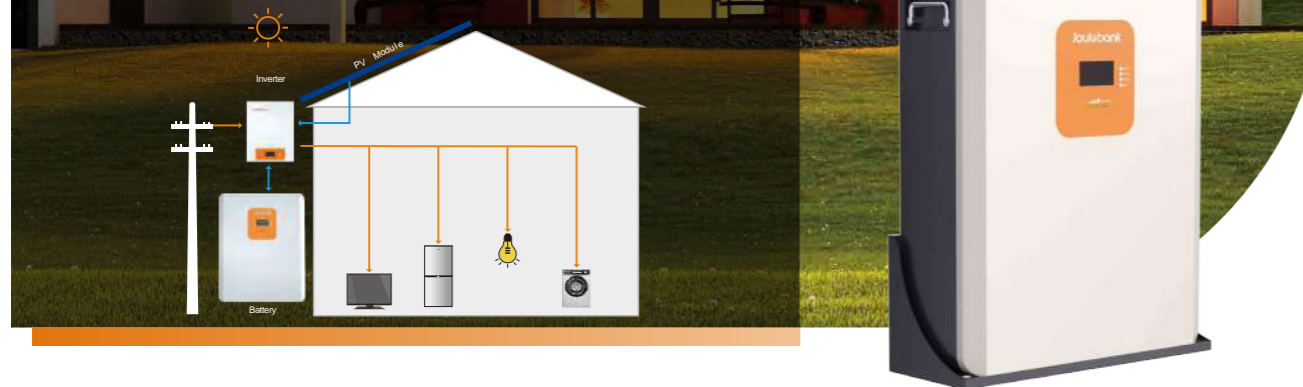
MODEL	JB2K5-P	JB3K8-P
Capacity	2560WH	3840WH
BATTERY DATA		
Nominal voltage	25.6	
Battery voltage range	20 ~33Vdc	
Battery capacity	100AH	150AH
Standard charging & discharge current	50A	75A
Max. charging & discharge current	100A	150A
PV INPUT		
Solar Charge Type	MPPT	
Maximum Output Power	1300W	1600W
Maximum PV open circuit voltage	150V	200V
PV Operating Voltage Range	30-150Vdc	30-200Vdc
MPPT Voltage Range	30-120Vdc	30-160Vdc
PV charging current range (can be set)	0-50A	0-60A
AC INPUT		
Rated input voltage	220/230Vac	
Input voltage range	(170Vac~280Vac) ±2% or (90Vac-280Vac) ±2%	
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz);or 57±0.3Hz ~ 65±0.3Hz (60Hz);	
Efficiency	>95%	
Transfer time (bypass and inverter)	10ms (typical)	
Maximum charge current(can be set)	0-60A	0-80A
Maximum bypass overload current	30A	
OUTPUT DATA		
AC output voltage	230Vac (pure sine wave)	
AC output frequency	50Hz/60Hz	
AC rated output power	2000W (3 channels)	3000W (4 channels)
AC peak output power	3000W	4500W
USB-A charging port	DC5V/2.4A (2 channels)	
TYPE-C port 1/2	5V-12V, 20W (2 channels)	
TYPE-C port 3/4	5V-20V, 100W (2 channels)	
Cigarette lighter output port	12.6V 8A(Max)	12.6V 10A(Max)
DC 5521 output port	12.6V 3A (2 channels)	
GENERAL DATA		
Heat dissipation	Forced air cooling, variable speed of fan	
APP(Optional)	Support mobile APP control	
LCD display parameters	Percentage of remaining battery, charge and discharge power, working status, working temperature, abnormal prompt	
Dimensions (L*W*H)	30kg	45kg
Weight (kg)h	400*270*540mm	450*300*600mm
Discharge temperature	-20°C~45°C	
Charging temperature	0°C~45°C	
Cycle life	4000 cycles (80% +)	
Certification standards	CE, UN38.3, MSDS, REACH	

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

JB-BW Series

Wall-mounted

JB-BW24/JB-BW48 series battery packs are designed specifically for low-voltage energy storage systems. It employs A-class LFP cells and is outfitted with a high-performance battery management system (BMS). It offers great safety, high energy density, long-term cycle life, and other qualities.



Wall or floor mounted, free up your space



Smart BMS system with emergency back up power



Easy-to-read screen, Smart remote monitoring



A-class LFP cells, safer and longer life



Strong compatible with varied inverters



Integrated DC circuit breaker for safe operation

MODEL	JB5K-BW48	JB10K-BW48
Rated Capacity [kWh]	5.12	10.24
Nominal Voltage [V]	51.2	
Installation Method	wall-mounted or floor-mounted	
Battery Type	Li-ion (LFP)	
ELECTRICAL PERFORMANCE		
Operating Voltage [V]	40-58.4	
Battery Roundtrip Efficiency [%]	95	
Standard Power [kW]	2.5	5
Max Power [kW]	5	10
Recommend Charge/Discharge Current [A]	50A	100A
Max Charge/Discharge Current [A]	100A	200A
Cycle Life	6000+	
TEMPERATURE PERFORMANCE		
Discharge Temperature	-20 ~ 60°C	
Charge Temperature	0 ~ 55 °C	
Storage Temperature	0 ~ 35 °C	
BMS High Temperature Cut-Off	115 °C	
GENERAL DATA		
Shipment SOC	30%	
Module Parallel	Up to 16 units	
Humidity [%]	4 to 100 (condensing)	
Altitude [m]	< 2000	
Protection	IP21	
Capacity retention & recovery	Charge retention rate≥95%, Recovery rate of charge≥97%	
Communication Port	RS485/CAN/Dry-contact Optional: Bluetooth, WIFI	
Display	LED+LCD	
Dimensions (D*W*H) [mm]	190*515*632	190*515*1100
Weight [kg]	52kg	86kg
Safety	CE, IEC62619, UL1973, MSDS	
UN Number	UN3840	
Hazardous Materials Classification	Class 9	
Transport Testing Requirement	UN38.3	

*1: Test conditions, cell Voltage 2.7~3.65V, 0.5C charge & discharge at +25±2 °C for battery system at beginning life.

System Usable Energy may vary with different Inverter.

*2: Test conditions, 90% DOD, 0.5C charge & discharge at +25±2 °C.

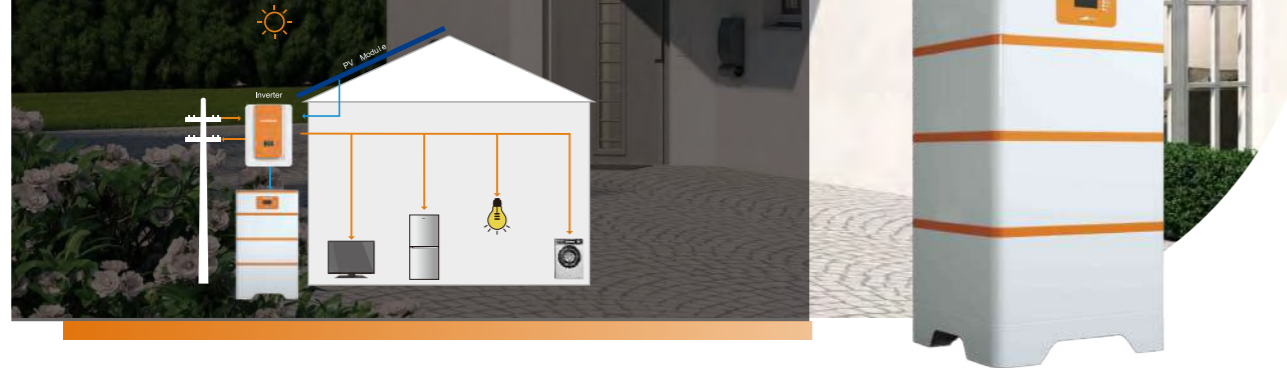
*3: Nominal Dis-/Charge Current and power derating will occur related to Temperature and SOC.

*4: Please visit Joulebank website for the latest certificates.

JB-BS Series

Stack-mounted

JB-BS series is designed for household energy storage systems, featuring lithium iron phosphate batteries, a high-performance BMS, and a unique stacked structure. With strong compatibility, high safety, easy expansion, and a compact, stylish appearance, these packs provide an excellent energy storage solution.



MODEL	JB5K-BS48	JB10K-BS48	JB15K-BS48	JB20K-BS48	JB25K-BS48
Rated Capacity [kWh]	5.12	10.24	15.36	20.48	25.6
Nominal Voltage [V]	51.2				
Installation Method	Stacked-mounted				
Battery Type	Li-ion (LFP)				
ELECTRICAL PERFORMANCE					
Operating Voltage [V]	43.2-58.4				
Battery Roundtrip Efficiency [%]	95				
Standard Power [kW]	2.5				
Max Power [kW]	5				
Recommend Charge/Discharge Current [A]	50				
Max Charge/Discharge Current [A]	100				
Cycle Life	6000+				
TEMPERATURE PERFORMANCE					
Discharge Temperature	-20 ~ 60°C				
Charge Temperature	0 ~ 55 °C				
Storage Temperature	0 ~ 35 °C				
BMS High Temperature Cut-Off	115 °C				
GENERAL DATA					
Shipment SOC	30%				
Humidity [%]	4 to 100 (condensing)				
Altitude [m]	< 2000				
Protection	IP54				
Capacity retention & recovery	Charge retentionrate≥95%, Recovery rate of charge≥97%				
Communication	RS485、CAN、Dry-contact、Optional: Bluetooth、WIFI				
Display Port	LED				
Dimensions (LxHxW) [mm]	496*580*210mm	496*580*420mm	496*580*630mm	496*580*840mm	496*580*1050mm
Weight [kg]	48kg	96kg	144kg	192kg	240kg
Safety	CE、RCM、IEC62619、UL1973、ROHS、REACH				
UN Number	UN3840				
Hazardous Materials Classification	Class 9				
Transport Testing Requirement	UN38.3				

*1: Test conditions, cell Voltage 2.7~3.65V, 0.5C charge & discharge at +25±2 °C for battery system at beginning life.

System Usable Energy may vary with different Inverter.


*2: Test conditions, 90% DOD, 0.5C charge & discharge at +25±2 °C.


*3: Nominal Dis-/Charge Current and power derating will occur related to Temperature and SOC.

*4: Please visit Joulebank website for the latest certificates.


 Flexible stacking, personalized energy solution

 Smart BMS system with emergency back up power

 Integrated DC circuit breaker for safe operation

 A-class LFP cells, 6000+ cycle life

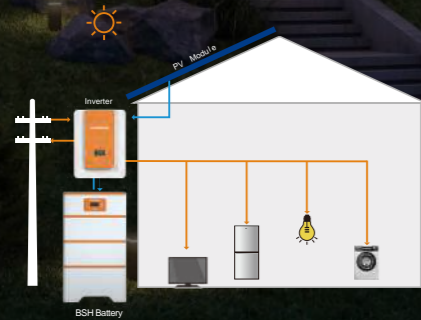
 Strong compatible with varied inverters

 Home style, fashion appearance

JB-BSH Series

Stack-mounted

JB-BSH series is designed for household and small industrial & commercial energy storage systems. This series utilizes lithium iron phosphate cells, an integrated high-performance BMS, offers a wide output voltage range of 120~700Vdc, and meets the requirements for high-voltage single-phase and three-phase hybrid inverters.



Strong compatible with varied inverters



Easy-to-read screen, Smart remote monitoring



Modular structure, Flexible battery capacity options



A-class brand battery cells (LFP) 90% DOD



Low currency, high efficiency, long life



Smart BMS system with emergency back up power

MODEL	JB5K-BSH	JB7K5-BSH	JB10K-SH	JB12K-BSH
Rated Capacity [kWh]	5.12	7.68	10.24	10.24
Nominal Voltage [V]	102.4	153.6	204.8	204.8
Installation Method	Stacked-mounted			
Battery Type	Li-ion (LFP)			
ELECTRICAL PERFORMANCE				
Operating Voltage [V]	86.4-116.8	129.6-175.2	172.8-233.6	216-292
Battery Roundtrip Efficiency [%]	95			
Standard Power [kW]	2.56	3.84	3.84	6.4
Max Power [kW]	5.12	7.68	7.68	12.8
Recommend Charge/Discharge Current [A]	25A			
Max Charge/Discharge Current [A]	50A			
Cycle Life	6000+			
TEMPERATURE PERFORMANCE				
Discharge Temperature	-20 ~ 60 °C			
Charge Temperature	0 ~ 55 °C			
Storage Temperature	0 ~ 35 °C			
GENERAL DATA				
Shipment SOC	30%			
Humidity [%]	4 to 100 (condensing)			
Altitude [m]	< 2000			
Protection	IP54			
Capacity retention & recovery	Charge retention rate≥95%, Recovery rate of charge≥97%			
Communication	RS485, CAN, Dry-contact Optional : Bluetooth, WIFI			
Display Port	LED+LCD			
Dimensions (LxWxH) [mm]	500*560*460	500*750*460	500*940*460	500*1130*460
Weight [kg]	70	100	130	160
Safety	CE, IEC62619, UL1973, MSDS			
UN Number	UN3840			
Hazardous Materials Classification	Class 9			
Transport Testing Requirement	UN38.3			

*1: Test conditions, cell Voltage 2.7~3.65V, 0.5C charge & discharge at +25±2 °C for battery system at beginning life.

System Usable Energy may vary with different Inverter.

*2: Test conditions, 90% DOD, 0.5C charge & discharge at +25±2 °C.

*3: Nominal Dis-/Charge Current and power derating will occur related to Temperature and SOC.

*4: Please visit Joulebank website for the latest certificates.

JB-BR Series

Rack-mounted

JB-BR series is designed as low-voltage rack-mounted battery packs for home energy storage systems. The battery is powered by lithium iron phosphate cells and is managed by a high-performance battery management system (BMS). It has high energy density, a long cycle life, easy expansion, simple installation, and a small footprint. The product has a unique design and innovation in terms of compatibility, energy density, power density, safety, operability, and product appearance, which provide customers with an excellent energy storage application experience.



JB-BR Series

MODEL	JB5K-BR48	JB10K-BR48	JB15K-BR48	JB20K-BR48	JB25K-BR48
Rated Capacity [kWh]	5.12	10.24	15.36	20.48	25.6
Nominal Voltage [V]	51.2				
Installation Method	Rack-mounted				
Battery Type	Li-ion (LFP)				
ELECTRICAL PERFORMANCE					
Operating Voltage [V]	43.2-58.4				
Battery Roundtrip Efficiency [%]	95				
Standard Power [kW]	2.5				
Max Power [kW]	5				
Recommend Charge/Discharge Current [A]	50				
Max Charge/Discharge Current [A]	100				
Cycle Life	6000+				
TEMPERATURE PERFORMANCE					
Discharge Temperature	-20 ~ 60°C				
Charge Temperature	0 ~ 55 °C				
Storage Temperature	0 ~ 35 °C				
BMS High Temperature Cut-Off	115 °C				
GENERAL DATA					
Shipment SOC	30%				
Humidity [%]	4 to 100 (condensing)				
Altitude [m]	< 2000				
Protection	IP21				
Capacity retention & recovery	Charge retention rate ≥ 95%, Recovery rate of charge ≥ 97%				
Communication	RS485, CAN, Dry-contact, Optional: Bluetooth, WIFI				
Display Port	LED				
Dimensions (LxHxW) [mm]	489*190*571mm	489*380*571mm	489*570*571mm	489*760*571mm	489*950*571mm
Weight [kg]	42kg	84kg	126kg	168kg	210kg
Safety	CE, RCM, IEC62619, UL1973, ROHS, REACH				
UN Number	UN3840				
Hazardous Materials Classification	Class 9				
Transport Testing Requirement	UN38.3				

*1: Test conditions, cell Voltage 2.7~3.65V, 0.5C charge & discharge at +25±2 °C for battery system at beginning life.

System Usable Energy may vary with different Inverter.

*2: Test conditions, 90% DOD, 0.5C charge & discharge at +25±2 °C.

*3: Nominal Dis-/Charge Current and power derating will occur related to Temperature and SOC.

*4: Please visit Joulebank website for the latest certificates.

- Rack design, easy to install & expand
- Smart BMS, remote monitoring, emergency back up
- High energy density, 6000+ cycle life
- A-class brand battery cells (LFP) 90% DOD
- Strong compatible with varied inverters
- Integrated DC circuit breaker for safe operation



JB-BRH Series

Rack-mounted

JB-BRH series is designed as high-voltage rack-mounted battery packs for household, and small industrial & commercial energy storage systems. It employs lithium iron phosphate batteries, a built-in high-performance battery management system (BMS), a wide output voltage range, and fulfills all high-voltage single-phase and three-phase hybrid inverter access requirements. The modular architecture allows for battery capacity expansion while providing significant power and great performance.

JB-BRH Series

MODEL	JB20K-BRH	JB40K-BRH	JB60K-BRH	JB80K-BRH
Rated Capacity[kWh]	20.48	40.96	61.44	81.92
Nominal Voltage[V]	204.8	409.6	614.4	819.2
Installation Method	Rack-mounted			
Battery Type	Li-ion (LFP)			
ELECTRICAL PERFORMANCE				
Operating Voltage [V]	172.8-233.6	345.6-467.2	518.4-700.8	691.2-934.4
Battery Roundtrip Efficiency [%]	95			
Standard Power [kW]	10.24	20.48	30.72	40.96
Max Power [kW]	20.48	40.96	61.44	81.92
Recommend Charge/Discharge Current [A]	50			
Max Charge/Discharge Current [A]	100			
Cycle Life	6000+			
TEMPERATURE PERFORMANCE				
Discharge Temperature	-20 ~ 60°C			
Charge Temperature	0 ~ 55 °C			
Storage Temperature	0 ~ 35 °C			
GENERAL DATA				
Shipment SOC	30%			
Humidity [%]	4 to 100 (condensing)			
Altitude [m]	< 2000			
Protection	IP21			
Capacity retention & recovery	Charge retentionrate≥95%, Recovery rate of charge≥97%			
Communication	RS485、CAN、Dry-contact、Optional: Bluetooth、WIFI			
Display Port	LED			
Dimensions (LxHxW) [mm]	Battery 489*760*571 Control box 489*258*571	Battery 489*760*571(2 sets) Control box 489*258*571	Battery 489*760*571(3 sets) Control box 489*258*571	Battery 489*760*571(4 sets) Control box 489*258*571
Weight [kg]	178	346	514	682
Safety	CE、RCM、IEC62619、UL1973、ROHS、REACH			
UN Number	UN3840			
Hazardous Materials Classification	Class 9			
Transport Testing Requirement	UN38.3			

*1: Test conditions, cell Voltage 2.7~3.65V, 0.5C charge & discharge at +25±2 °C for battery system at beginning life.
System Usable Energy may vary with different Inverter.
*2: Test conditions, 90% DOD, 0.5C charge & discharge at +25±2 °C.
*3: Nominal Dis-/Charge Current and power derating will occur related to Temperature and SOC.
*4: Please visit Joulebank website for the latest certificates.



Rack design, easy to install & expand



Smart BMS, remote monitoring, emergency back up



Wide voltage range giving greater flexibility



A-class brand battery cells (LFP) 90% DOD



Strong compatible with varied inverters



Low currency, high efficiency, long life