



Providing high quality energy storage



# **BRAND HISTORY**

# Company Vision

- 1. Serve JHPV Dealers In Local Market
- 2. Assist & Guide The Local EPC
- 3.Top Solar Cell Technology
- 4. Experienced After-sales Team

# 4S+ Service

- 1.4S:Sales, Service, Sparepart, Solution.
- 2.Local Team Service.
- 3.Installation Technical Guide.
- 4.In stock

## 2015

Ningbo Jinghong Energy Technology Co., Ltd. was established, Cell printing and production

## 2017

The Cell production capacity was 400MW, and the two-year export sales exceeded from \$3 million to \$10 million

## 2022

Established Cutting silicon wafers company and module production base 1.5GW

## 2023

It established a European branch and a Singapore branch, engaged in Cell and silicon wafer sales

## 2024

Set sail for the future...

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# **GLOBAL PARTNER**

### China







































## **Overseas**













# **CERTIFICATION**





# MORE SECURE INSURANCE SERVICES



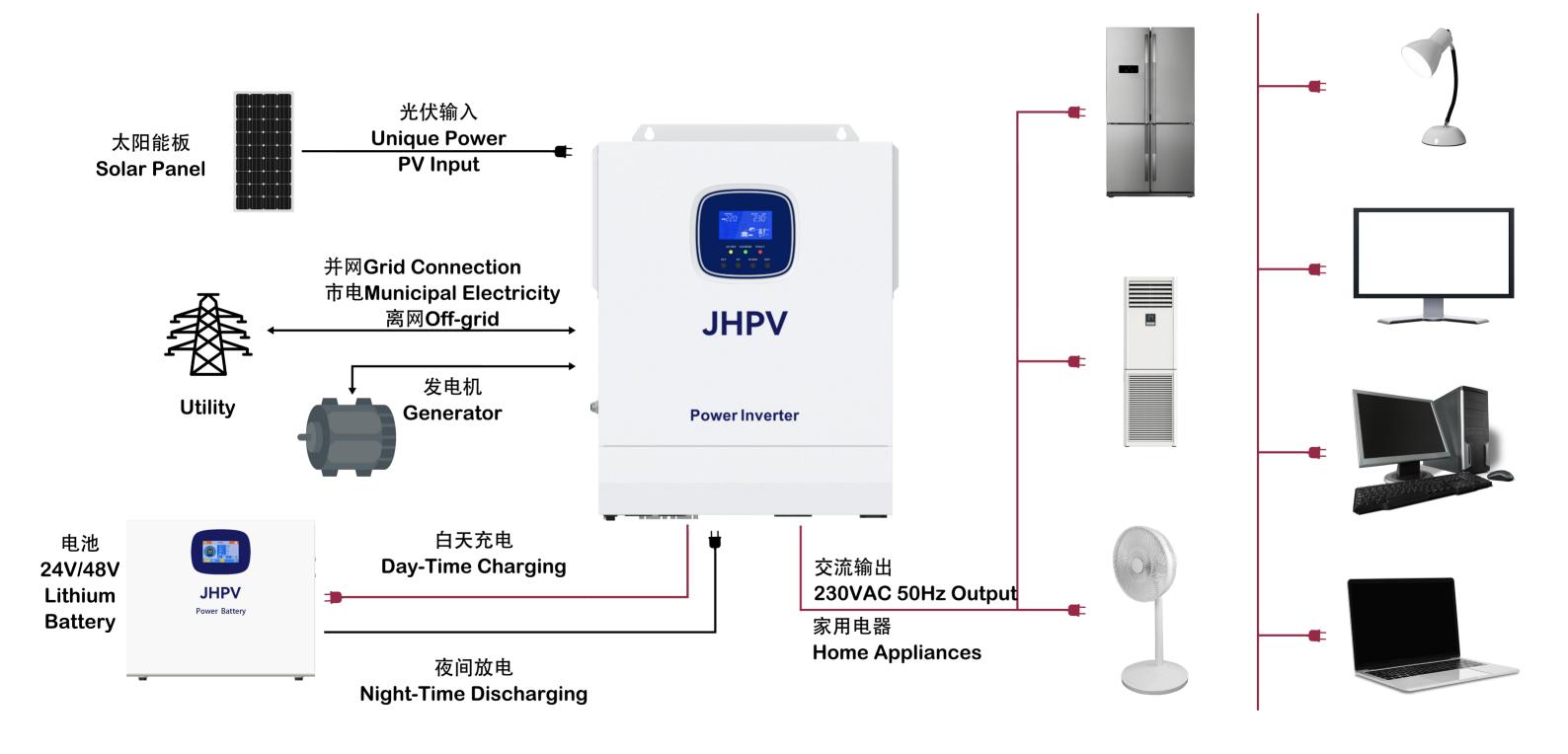








# Solar Cell System Off Grid Type





# Efficiency

Advanced MPPT with up to 99.9% efficiency
Multiple charge and discharge modes are available

### Reliable

Outputs high-quality pure sine wave AC power Reliable output for long periods at rated power

#### Safety

360 degrees of security from hardware tosoftware Multiple safety approvals available

#### User-Friendly

Industrial design with a modern aesthetic look Easy to install and simple to use

#### All in one

Support for many types of batteries Supports Li-ion battery BMS communication

#### Intelligent

Exclusive Li-ion battery BMS dual activation Support for remote monitoring of operating

# Technical parameters/

MODEL	JHPV-5.5P-Ultra	CAN BE SET
	INVERTER	
Rated Output Power	5,500W	
Max.Peak Power	11,000VA	
Rated Output Voltage	Rated Output Voltage 230Vac ( single phase/three phase-paralleled )	
Load Capacity of Motors	4HP	
Rated AC Frequency	50Hz/60Hz	✓
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
Parallel Capacity	1-6	

# Technical parameters /



MODEL	JHPV-5.5P-Ultra	CAN BE SET
	BATTERY	
Battery Type	Lead-acid / Li-ion / User defined	✓
Rated Battery Voltage	48V	
Voltage Range	40 ~ 60Vdc	✓
Max.MPPT Charging Current	100A	✓
Max.Mains/Generator Charging Current	60A	✓
Max.Hybrid Charging Current	100A	✓
	PV INPUT	
Num. of MPPT Trackers	1	
Max.PV Array Power	6,000W	
Max.Input Current	22A	
Max.Voltage of Open Circuit	500Vdc	
MPPT Voltage Range 120-450Vdc		
	UTILITY/ GENERATOR INPUT	
Input Voltage Range	UPS mode: 170 ~ 280Vac; APL mode: 90 ~ 280Vac	✓
Frequency Range	50/60Hz	
Bypass Overload Current	40A	
	EFFICIENCY	
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	92%	
	GENERAL	
Dimensions	426*322*124mm (1.40*1.06*0.41ft)	
Weight	10.5kg (23.15lb)	
Protection Degree	IP20, Indor Only	
Operating Temperature Range	-10 ~55	
Noise	60dB	
Cooling Method	Internal Fan	
Warranty	1.5 Years	
	COMMUNICATION	
Embedded Interfaces	RS485 / USB / Dry contact	✓
External Modules ( Optional )	Wi-Fi / GPRS	✓
	CERTIFICATION	
Safety	CE(IEC 62109-1)/ cETL(UL 1741 C22.2 NO.107.1) /FCC/SAA	
EMC	EN61000	
RoHS	Yes	

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Maximized Energy Harvesting

**Engineered for Versatility** 

Intelligent Energy Dynamics Simplified Interaction

# Technical parameters /

Model		JH-25K-100	JH-30K-100	JH-36K-100	JH-40K-100	JH-50K-100
PV Input						
Recommended Max. Input Power	[kW]	37.50	45.00	54.00	60.00	75.00
Start-up Voltage	[V]	135	135	135	135	135
Max. DC Input Voltage*	[V]	1000*	1000*	1000*	1000*	1000*
Rated DC Input Voltage	[V]	620	620	620	620	620
MPPT Voltage Range*	[V]	200-850*	200-850*	200-850*	200-850*	200-850*
No. of MPP Trackers		4	4	4	4	4
No. of DC Inputs per MPPT		2	2	2	2	2
Max. Input Current	[A]	30x4	30x4	30x4	30x4	30x4
Max. Short-circuit Current	[A]	40x4	40x4	40x4	40x4	40x4
Battery Side						
Battery Type			Lithiu	m Battery (with	BMS)	
Battery Voltage Range		135-750				
Maximum Charging/Discharge Current				100/100		

# Technical parameters/



Model		JH-25K-100	JH-30K-100	JH-36K-100	JH-40K-100	JH-50K-100
Grid Side						
Rated Output Power	[kW]	25.00	30.00	36.00	40.00	50.00
Max. Output Apparent Power	[kVA]	27.50	33.001)	39.60	44.00	55.00
Max. Input Apparent Power**	[kVA]	30.00	36.00	43.50	48.00	60.00
Max. Charging Power of Battery	[kW]	25.00	30.00	36.00	40.00	50.00
Rated AC Voltage	[V]		3L/N/PE; 22	0/380V;230/40	0V;240/415V	
Rated AC Frequency	[Hz]	50/60				
Max. Output Current	[A]	42.00	50.002)	60.00	66.00	83.00
Power Factor			0.8 le	eading0.8 lag	gging	
Max. Total Harmonic Distortion			<3% (	@Rated output	power	
DCI				<0.5%ln		
Back-up Side						
Rated Output Power	[kW]	25.00	30.00	36.00	40.00	50.00
Max. Output Apparent Power	[kVA]	27.50	33.00	39.60	44.00	55.00
Max. Output Current	[A]	42.00	50.00	60.00	66.00	83.00
On/Off-grid Switching Time	[ms]	<20ms				
Rated Output Voltage	[V]		3L/N/PE; 22	0/380V;230/40	0V;240/415V	
Rated Output Frequency	[Hz]	50/60				
Voltage Harmonic Distortion			<	3% @Linear loa	ad	
Generator Side						
Max. Input Apparent Power**	[kVA]	30.00	36.00	43.50	48.00	60.00
Max. Charging Power of Battery	[kW]	25.00	30.00	36.00	40.00	50.00
Rated AC Voltage	[V]		3L/N/PE; 22	0/380V;230/40	0V;240/415V	
Rated AC Frequency	[Hz]	50/60				
Max. Input Current	[A]	43.50	52.20	63.00	69.60	87.00
Efficiency						
Max. Efficiency		98.8%	98.8%	98.8%	98.8%	98.8%
European Efficiency		98.3%	98.3%	98.3%	98.3%	98.3%
Protection						
Integrated Protection		protection / temperature p	se polarity prote Insulation resis rotection / Resi roltage protection	tance protection dual current pro	n / Surge prote otection /Island	ction /Over- ing protection
General Data						
Over Voltage Category				PV: II Main: III		
Dimensions	[W×H×D mm]			800×620×300		
Weight	[KG]			72		
Protection Degree				IP65		
Standby Self-consumption	[W]			<15		
Topology			-	Transformerles	S	
Operating Temperature Range	[°C]			-30~60		
Relative Humidity	[%]			0~100		
Operating Altitude Cooling	[m]		3000	) (>3000m Dera Smart fan	ating)	
<u> </u>	[dB]					
Noisa Laval		<50				
Noise Level Display	[ub]			OLED & LED 485, WiFi/LAN		

<sup>\*\*</sup> Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery;

1) AS 4777.2, VDE-AR-N 4105: 30.0kVA; 2) AS 4777.2, VDE-AR-N 4105: 43.5A



# Low voltage series lithium battery modules

# JHB-L1 series rack type lithium iron phosphate battery

### Product introduction >>

This product is composed of high-quality lithium iron phosphate cells (by series and parallel) and advanced BMS management system. It can be used as an independent DC power supply or as a "basic unit" to form a variety of energy storage lithium battery power systems, with high reliability and longer life. It can be used as backup power supply of communication base station, backup power supply of digital center, ho usehold energy storage power supply, industrial energy storage power supply, etc. It can be seamlessly con nected with main equipment such as UPS and photovoltaic power generation.



## Product parameter >>

Model	JHB25.6V-200AH	JHB48V-100AH-R	JHB51.2V-100AH-R		
Nominal voltage(V)	25.6	48	51.2		
Nominal capacity(Ah)	210	105	105		
Nominal energy capacity(kWh)	5.3	5	5.3		
Operating voltage range(V)	22.4-29.2	52-54.75	40-57.6		
Recommended charging voltage(V)	28	52.5	56		
Recommended discharge cut-off voltage(V)	24	45	45		
Standard Charging Current(A)	100	50	50		
Maximum continuous charging current(A)	200	100	100		
Standard Discharge Current(A)	100	50	50		
Maximum discharge current(A)	200	100	100		
Applicable temperature(°C)	-3	0~60(10~35recommende	ed)		
Permissible humidity range(%RH)		0~95Nocondensation			
Storage temperature(°C)	-2	0~65(10~35recommende	ed)		
Protection level		IP20			
Cooling method	Naturalaircooling/smartfan				
Life cycles		80% DOD 6000+times			
Maximum size (D*W*H)mm	596*545*155	540*545*155	580*492*165		
Weight(kg)	48	44.5	50		

Note: The above data is for reference only and is subject to change without prior notice. Customized requirements such as Bluetooth and 1C charging and discharging need to be communicated with engineers.

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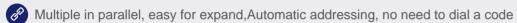


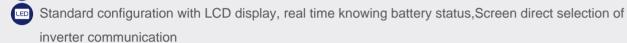
# Low voltage series lithium battery modules

# JHB-L2 series rack type lithium iron phosphate battery

## Product introduction >>









Standard cycle life is more than 6000 times

Remote viewing error, online software upgrade



# Product parameter >>

Model	JHB48V-314AH-W	JHB51.2V-314AH-W	
Nominal voltage (V)	48	51.2	
Nominal capacity (Ah)	330	330	
Nominal energy (kWh)	15.8	16.9	
Operating voltage range	42-54.75	40-57.6	
Recommended charging voltage (V)	52.5	56	
Recommended discharge cut-off voltage (V)	45	45	
Standard Charging Current (A)	150	150	
Maximum continuous charging current (A)	200	200	
Standard Discharge Current (A)	150	150	
Maximum discharge current (A)	200	200	
Applicable temperature (°ℂ)	-30~60(10~3	5 recommended)	
Permissible humidity range (%rh)	0~95 No c	ondensation	
Storage temperature (° C)	-20~65(10~35 recommended)		
Class of protection	IP20		
Cooling mode	Natural air cooling		
Cycle number	80% DOD 6000+ times		
Max. dimension of wall-mounted (D x W x H)mm	830*480*230	830*480*230	
Weight (kg)	124	130	



# LITHIUM BATTERY CLUSTER ENERGY STORAGE SYSTEM

# BAT/SIN BAT/SIN BAT/SIN BISHIN

#### Product Introduction >>

JBP-H2 series battery products are designed for industrial and commercial emergency power supply, peak cutting and valley filling, remote mountainous areas, islands and other weak electric power supply and development of high-voltage large-capacity system. The lithium iron phosphate cell and customized BMS system are used to effectively manage the cell, which has more excellent product performance and safety reliability than the traditional battery. Diversified communication interface and software protocol library, so that the battery system can be directly matched with the mainstream inverter on the market communication. The product has many charge and discharge cycles, high power density and long service life. Unique design and innovation in compatibility, energy density, dynamic monitoring, safety, reliability and product appearance can bring users a better energy storage application experience.

- Modular design, higher integration, saving installation space
- High performance lithium iron phosphate anode material, good consistency, design life of more than 10 years
- One-button switch, front operation, front wiring, convenient installation and maintenance, convenient operation
- Various functions, over temperature alarm protection, over charge and over discharge protection, short circuit protection
- Strong compatibility, can be seamlessly connected with UPS, photovoltaic power generation and other main equipment
- Various communication interfaces, such as CAN/RS485, CAN be customized according to customer needs to facilitate remote monitoring of the system
- Flexible use, can be used as an independent DC power supply, can also be used as a basic unit to form a
  variety of specifications of energy storage power system and container energy storage system. It can be
  used as backup power supply of communication base station, backup power supply of digital center, home
  energy storage power supply, industrial energy storage power supply, etc







## Lithium battery pack parameter table >>

Model	JBP <b>9650</b>	JBP <b>48100</b>	JBP <b>32150</b>	JBP <b>96100</b>	JBP <b>48200</b>	JBP <b>32300</b>
Cell Type (Ah)		52			105	
Nominal energy (kWh)	5 10					
Nominal capacity(Ah)	52	104	156	105	210	300
Nominal voltage(VDC)	96	48	32	96	48	32
Operating voltage range(VDC)	87~106.5	43.5~53.2	29~35.5	87~106.5	43.5~53.2	29~35.5
Workingtemperature(°C)	-20~65					
Protection level	IP20					
Reference weight (kg)	47.1 86.6					
Reference size(D*W*H)mm		630*475*16	2		640*510*25	2

Note: The battery pack is used with the system, the cycle life is ≥5000 working conditions, 25°C, 80%DOD; special voltage can be consulted and selected; the system with different voltage and capacity registration can be configured according to the batterypack specifications.

## Lithium battery cluster voltage platform parameter table >>

Model	Nominal voltage(V)	Nominal capacity(Ah)	Operating voltage range(VDC)	Recommended charge and discharge current (A)
JBP 96100/200/300	96		87~106.5	
JBP 192100/200/300	192		174~213	
JBP 220100/200/300	220		200~245	
JBP 288100/200/300	288		260~319.5	
JBP 360100/200/300	360		325~400	
JBP 384100/200/300	384	100/200/300	348~426	50/100/150
JBP 480100/200/300	480		435~532	
JBP 512100/200/300	512		464~568	
JBP 576100/200/300	576		522~639	
JBP 672100/200/300	672		609~745.5	

Note: See attachment for detailed parameters, special voltage and capacity can be customized.

# **MATERIAL PROPERTY OF THE CHAPTER**

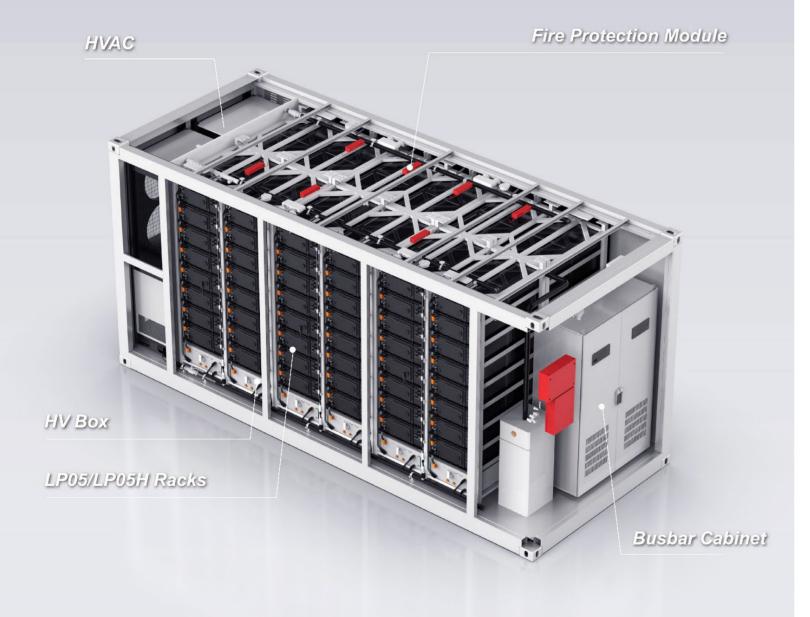
# **C&I ESS Cabinet**



Model	JH-232-280	JH-372-280		
Cell	LiFePO4			
con?guration	1P260S	1P416S		
Rated capacity	280 Ah	280 Ah		
Rated power	232 kWh	372 kWh		
Rated voltage	832.0 Vdc	1331.2 Vdc		
Operating voltage	650.0 Vdc~949.0 Vdc	1040.0 Vdc~1518.4 Vdc		
Rated charging/discharging current	158	184		
Maximum charging/discharging current	280	A		
Communication	CAN/R	S485		
PCS parameters				
Rated output power	125-135KW	200-215KW		
Waveform distortion rate	< 3 %			
Output voltage	400V	690V		
Permissible voltage deviation	-10 % ~ +15 %			
Rated grid frequency	50 Hz/6	60 Hz		
System parameter				
Dimensions (LxWxH)	1150mm*1610mm*2450mm	1300mm*1300mm*2300mm		
Weight(Ton)	2.7/T	3.5/T		
IP rating	IP5	5		
Maximum circulation ef?ciency	90%	%		
Auxiliary power supply	External pov	ver supply		
Anti-corrosion grade	C4	ļ.		
Operating humidity range	0~95%(non-condensing)			
Operating Temperature Range	-30°C~	50°C		
Maximum working altitude	5000 m(>3000m Derogation)			
Battery cabinet cooling method	liquid co	poling		
Fire safety con?guration	pack grade perlu	uorohexanone		
Communication	4G/RS48	35/LAN		



# **BESS Container (DC side)**



Cell Pack **System** 





	System Parameters	
model	JH-3.72MWH	JH-5MWH
Cell Type	Lithium Iron Phosphate	Lithium Iron Phosphate
Magnification	0.5P	0.5P
Combination	10 clusters	12 clusters
Rated energy	3727.36kWh	5015.96kWh
Nominal voltage	1331.2V	1331.2V
Operating voltage range	1040V ~ 1518.4V	1040V~1518.4V
Dimensions (length x width x height)	6058×2800×2996mm	6058*2438*2896mm
Weight	36t	50t
Operating temperature range	Charging: 0~50 , Discharging: -20~50	Charging: 0~50 , Discharging: -20~50
Operation and maintenance method	Walk-in maintenance	Non-walk-in maintenance
Maximum operating altitude	4000m	4000m
Temperature control method	Liquid Cooling	Liquid Cooling
Fire protection system	Heptafluoropropane / perfluorohexanone +water fire fighting	Heptafluoropropane / perfluorohexanone +water fire fighting
Communication interface	Ethernet, RS485, CAN	Ethernet, RS485, CAN
Communication Protocol	IEC104, IEC61850, Modbus RTUA, ModbusTCP	IEC104, IEC61850, Modbus RTUA ModbusTCP
Protection level	IP54	IP54
standard	GB/T 36276, GB/T 34131	GB/T 36276, GB/T 34131



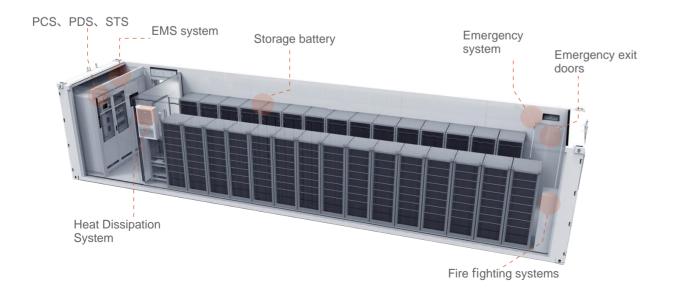
# CONTAINERIZED ENERGY STORAGE SYSTEM

## Product Introduction >>

The containerized energy storage system includes:BESS, bidirectional power conversion system (PCS), DC conversion system (PDS), microgrid switching system (STS), energy management system (EMS), auxiliary power distribution system, air conditioning system, and fire protection.

## Performance advantage >>

- According to customer needs, the type and capacity of the battery system can be flexibly configured
- PCS adopts modular, power frequency overall architecture, simple maintenance, flexible configuration, and can realize multiple parallel machines
- Supports on-grid and off-grid operation mode, seamless switching, and supports black start
- EMS unattended system, local control, cloud monitoring operation, with highly customizable functions
- With peak shaving and valley filling, demand response, anti-reverse flow operation, backup power supply, command response and other modes
- With a complete gas fire extinguishing system and automatic fire monitoring and alarm system, sound and light alarm and fault transmission
- With a complete heat dissipationand temperature control system to ensure that the temperature of the battery compartment is within the optimal working range
- The access control system has remote control and on-site operation functions



## Product parameter >>

Product paramete					
Model	10ft	20ft	40ft		
Output voltage (V)	380/400±15%				
Grid frequency (Hz)		50/60(±2.5)			
Output power (kW)	50~100	50~500	250~630		
Battery capacity(kWh)	50~400	200~1500	800~3000		
Battery Type	I	Lithium iron phosphate batte	ery		
Dimensions (D*W*H)mm	Inner:2831*2352*2385	Inner:2352*5898*2385	Inner:2352*12032*2385		
Dimensions (D W 11)min	Outer:2438*2991*2591	Outer:2438*6058*2591	Outer:2438*12192*2591		
Protection level		IP54			
Humidity range (%RH)		0~95			
Altitude (m)		3000			
Operating temperature (°C)		-20~50			
Battery voltage range (V)		250~850			
Maximum DC current (A)	200	750	1500		
Connection method	3P4W				
Power factor	-1~1				
Communication method	RS485,CAN,Ethernet				
	Power frequency isolation				

Note: The above data are subject to change without prior notice.

# Project Pictures







• Module: 76.8NESP250

Rack: LFP 1152V 250Ah Total: 455 Racks

• Container: 22\*45ft

Application: Wind and storage

Commissioning Date: 2023 Nov.

Location: Abilene, Texas



Rated Energy of LFP Battery: 71MW/129MWh

Module: 76.8NESP250

Rack: LFP 1152V 250Ah Total: 448 Racks

Container: 22 units of CON20 and CON30

Application: PV and storage

Commissioning Date: 2023 Nov.

Location: Texas



# Project Pictures







• Module: 76.8NESP250

Rack: LFP 1152V 250Ah Total: 448 Racks

Container: 22 units of CON20 and CON30

Application: PV and storage

• Commissioning Date: 2023 Dec.

Location: Texas



BESS Rated Power: 100MW;

Rated Energy of LFP Battery: 200MWh;

Application: PV and storage

Commissioning Date: 2023



# JH-M10DS144C 575~595W

# N-22.84% Efficiency

575~595W (182x182 mm Half-Cut Cell) 144 pcs

N-TYPE Bifacial Silver Frame









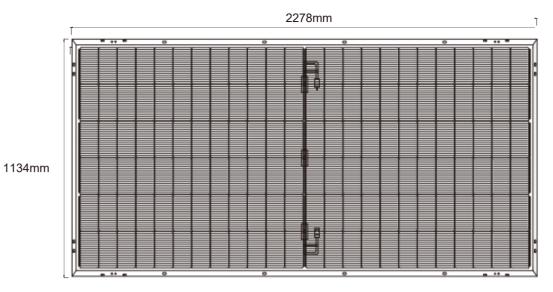


Dimension: 2278 mm x 1134mm x 30 mm

Weight: 31.7 kg



### **Product Appearance**



#### Electrical parameters at Standard Test Conditions (STC\*) & Nominal Operating Cell Temperature (NOCT\*)

Module Type	575W / 436W	580W / 440W	585W / 444W	590W / 448W	595W / 452W
Test Environment	STC / NOCT				
Power output tolerances Pmax(W)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Module efficiency(%)	22.26	22.45	22. 65	22.84	23.03
Voltage at Pmax Vmpp(V)	43.73 / 40.75	43.88 / 40.93	44.02 / 41.11	44.16 / 41.29	44.30 / 41.47
Current at Pmax Impp(A)	13.15 / 10.70	13.22 / 10.75	13.29 / 10.80	13.36 / 10.85	13.43 / 10.90
Open-circuit voltage Vco(V)	50.75 / 49.59	52.95 / 49.77	53.15 / 49.96	53.35 / 50.15	53.55 / 50.34
Short-circuit current Ico(A)	13.89 / 11.33	13.95 / 11.38	14.01 / 11.43	14.07 / 11.48	14.13 / 11.55

<sup>\*</sup>STC: 1000 W·m-2 irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904\*NOCT: open-circuit module operation temperature at 800 W·m-2 irradiance, 20°C ambient temperature, 1 m·s-1 wind speed.

#### **GENERAL CHARACTERISTICS**

Pieces per Container

Dimensions (L / W / H)	2278 mm / 1134mm / 30 mm
Weight	31.7kg
PACKAGING SPECIFICATION	ONS
Number of modules per pallet	36
Number of pallets per 40' contain	er 20
Pieces ner Container	720

#### **OPERATING CONDITIONS**

Max. system voltage	1500 VDC
Max. series fuse rating*	30 A
Operating temperature range	- 40°C to 85°C
Max. static load, front (e.g., snow)	5400 Pa
Max. static load, back (e.g., wind)	2400 Pa
Max. hailstone impact (diameter/velocity)	25 mm / 23 m⋅s-1
*DO NOT CONNECT FLISE IN COMBINED BOY WITH TWO OR MODE	STRINGS IN PARALLEL CONNECTION

#### THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	$45 \pm 2$
Temperature coefcient of Pmax		%/°C	-0.29
Temperature coefcient of Voc		%/°C	-0.25
Temperature coefcient of Isc		%/°C	0.045

<sup>\*</sup>NOCT: open-circuit module operation temperature at 800 W·m-2 irradiance, 20°C ambient temperature,

#### **CONSTRUCTION MATERIALS**

Cell ( material / quantity )	monocrstalline silicon / 6 x 24
Glass (material / thickness)	low-iron tempered glass / 2+2 mm
Frame (material)	anodized aluminum alloy
Junction box (type / protection	degree) 3 bypass diodes / ≥ IP68
Cable (length / cross-sectional	area) ± 300 mm or customized length / 4 mm²





# JH-G12RDS132C 620~640W

# N-23.5% Efficiency

620~640W (182x210 mm Half-Cut Cell) 132 pcs N-TYPE bifacial Silver Frame









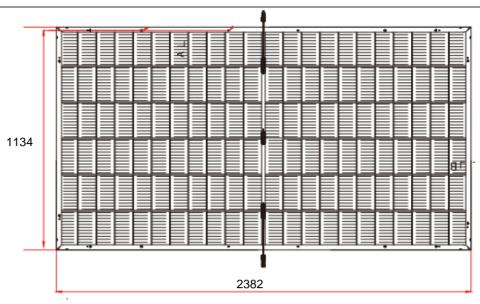


Dimension: 2382 mm x 1134mm x 30 mm

Weight: 33.1 kg



#### **Product Appearance**



#### Electrical parameters at Standard Test Conditions (STC\*) & Nominal Operating Cell Temperature (NOCT\*)

Module Type	620W / 474 W	625W / 478W	630W / 482W	635W / 486W	640W / 490W
Test Environment	STC / NOCT				
Power output tolerances Pmax(W)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Module efficiency(%)	23.0	23.1	23.3	23.4	23.5
Voltage at Pmax Vmpp(V)	41.40 / 38.80	41.70 / 39.10	42.00 / 39.40	42.30 / 39.70	42.60 / 40.00
Current at Pmax Impp(A)	14.99 / 12.20	15.00 / 12.21	15.01 / 12.22	15.02 / 12.23	15.03 / 12.24
Open-circuit voltage Vco(V)	49.60 / 47.10	49.90 / 47.30	50.20 / 47.70	50.50 / 48.10	50.80 / 48.50
Short-circuit current Ico(A)	15.91 / 12.82	15.92 / 12.83	15.93 / 12.84	15.94 / 12.85	15.95 / 12.86

<sup>\*</sup>STC: 1000 W·m-2 irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904\*NOCT: open-circuit module operation temperature at 800 W·m-2 irradiance, 20°C ambient temperature, 1 m·s-1 wind speed.

#### **GENERAL CHARACTERISTICS**

Dimensions (L / W / H)	2382 mm / 1134mm / 30 mm
Weight	33.1 kg
PACKAGING SPECIFICATION	ONS
Number of modules per pallet	36
Number of pallets per 40' contain	er 20
Pieces per Container	720

#### **OPERATING CONDITIONS**

Max. system voltage	1500 VDC
Max. series fuse rating*	30 A
Operating temperature range	- 40°C to 85°C
Max. static load, front (e.g., snow)	5400 Pa
Max. static load, back (e.g., wind)	2400 Pa
Max. hailstone impact (diameter/velocity)	25 mm / 23 m·s-1

<sup>\*</sup>DO NOT CONNECT FUSE IN COMBINER BOX WITH TWO OR MORE STRINGS IN PARALLEL CONNECTION

#### THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45 ± 2
Temperature coefcient of Pmax		%/°C	-0.29
Temperature coefcient of Voc		%/°C	-0.25
Temperature coefcient of Isc		%/°C	0.045

<sup>\*</sup>NOCT: open-circuit module operation temperature at 800 W  $\cdot$  m-2 irradiance, 20°C ambient temperature, 1 m  $\cdot$ s-1 wind speed.

#### **CONSTRUCTION MATERIALS**

Cell ( material / quantity )	monocrstalline silicon / 6 x 22
Glass (material / thickness)	low-iron tempered glass / 2+2 mm
Frame (material)	anodized aluminum alloy
Junction box (type / protection of	degree) 3 bypass diodes / ≥ IP68
Cable (length / cross-sectional	area) ± 300 mm or customized length / 4 mm²



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# JH-M10DS156C 620~640W

# N-22.72% Efficiency

620~640W (182x182 mm Half-Cut Cell) 156 pcs

N-TYPE bifacial Silver Frame









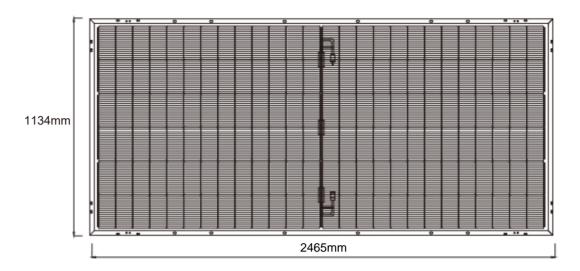


Dimension: 2465 mm x 1134mm x 30 mm

Weight: 35 kg



#### **Product Appearance**



#### Electrical parameters at Standard Test Conditions (STC\*) & Nominal Operating Cell Temperature (NOCT\*)

Module Type	620W / 465.74W	625W / 469.50W	630W / 473.26W	635W / 477.01W	640W / 480.76W
Test Environment	STC / NOCT				
Power output tolerances Pmax(W)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Module efficiency(%)	22.18	22.35	22.54	22.72	22.90
Voltage at Pmax Vmpp(V)	47.37 / 44.05	47.54 / 44.21	47.70 / 44.36	47.86 / 44.51	48.02 / 44.66
Current at Pmax Impp(A)	13.09 / 10.57	13.15 / 10.62	13.21 / 10.67	13.27 / 10.72	13.33 / 10.77
Open-circuit voltage Vco(V)	57.37 / 53.93	57.50 / 54.05	57.63 / 54.17	57.76 / 54.29	57.89 / 54.37
Short-circuit current Ico(A)	13.74 / 11.16	13.80 / 11.22	13.86 / 11.29	13.92 / 11.35	13.98 / 11.41

<sup>\*</sup>STC: 1000 W·m-2 irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904\*NOCT: open-circuit module operation temperature at 800 W·m-2 irradiance, 20°C ambient temperature, 1 m·s-1 wind speed.

#### **GENERAL CHARACTERISTICS**

Dimensions (L / W / H)	2465 mm / 1134mm / 30 mm		
Weight	35 kg		
PACKAGING SPECIFICATIONS			
Number of modules per pallet	36		
Number of pallets per 40' con	tainer 18		
Pieces per Container	648		

#### **OPERATING CONDITIONS**

Max. system voltage	1500 VDC		
Max. series fuse rating*	30 A		
Operating temperature range	- 40°C to 85°C		
Max. static load, front (e.g., snow)	5400 Pa		
Max. static load, back (e.g., wind)	2400 Pa		
Max. hailstone impact (diameter/velocity)	25 mm / 23 m·s-1		
*DO NOT CONNECT FUSE IN COMBINER BOX WITH TWO OR MORE STRINGS IN PARALLEL CONNECTION.			

#### THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	$45 \pm 2$
Temperature coefcient of Pmax		%/°C	-0.29
Temperature coefcient of Voc		% / °C	-0.25
Temperature coefcient of Isc		% / °C	0.045

<sup>\*</sup>NOCT: open-circuit module operation temperature at 800 W·m-2 irradiance, 20°C ambient temperature, 1 m·s-1 wind speed.

#### **CONSTRUCTION MATERIALS**

Cell ( material / quantity )	monocrstalline silicon / 6 x 26
Glass (material / thickness)	low-iron tempered glass / 2+2 mm
Frame (material)	anodized aluminum alloy
Junction box (type / protection d	degree) 3 bypass diodes / ≥ IP68
Cable (length / cross-sectional a	± 300 mm or customized length / 4 mm²



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# JH-G12DS132C 700~720W

# N-23.18% Efficiency

700~720W (210x210 mm Half-Cut Cell) 132 pcs

N-TYPE bifacial Sliver Frame









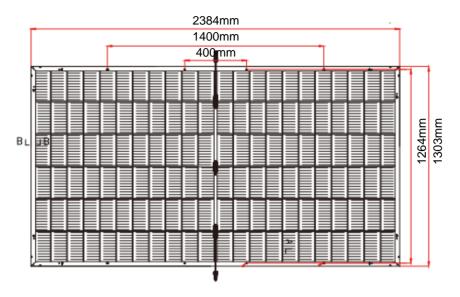


Dimension: 2384 mm x 1303mm x 33 mm

Weight: 38.7 kg



#### **Product Appearance**



#### Electrical parameters at Standard Test Conditions (STC\*) & Nominal Operating Cell Temperature (NOCT\*)

		\ /	1 0	· ·	\
Module Type	700W / 534W	705W / 540W	710W / 543W	715W / 547W	720W / 551W
Test Environment	STC / NOCT				
Power output tolerances Pmax(W)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Module efficiency(%)	22.53	22.70	22.86	23.02	23.18
Voltage at Pmax Vmpp(V)	40.50 / 38.00	40.70 / 38.30	40.90 / 38.50	41.10 / 38.70	41.30 / 38.80
Current at Pmax Impp(A)	17.29 / 14.05	17.33 / 14.08	17.36 / 14.12	17.40 / 14.14	17.44 / 14.19
Open-circuit voltage Vco(V)	48.60 / 46.10	48.80 / 46.30	49.00 / 46.50	49.20 / 46.70	49.40 / 46.90
Short-circuit current Ico(A)	18.32 / 14.76	18.36 / 14.80	18.40 / 14.83	18.44 / 14.86	18.49 / 14.90

<sup>\*</sup>STC: 1000 W·m-2 irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904\*NOCT: open-circuit module operation temperature at 800 W·m-2 irradiance, 20°C ambient temperature, 1 m·s-1 wind speed.

#### **GENERAL CHARACTERISTICS**

Dimensions (L / W / H)	2384 mm / 1303mm / 33 mm		
Weight	38.7 kg		
PACKAGING SPECIFICATIONS			
Number of modules per pallet	33		
Number of pallets per 40' conta	ainer 18		

#### **OPERATING CONDITIONS**

Max. system voltage	1500 VDC		
Max. series fuse rating*	35 A		
Operating temperature range	- 40°C to 85°C		
Max. static load, front (e.g., snow)	5400 Pa		
Max. static load, back (e.g., wind)	2400 Pa		
Max. hailstone impact (diameter/velocity)	25 mm / 23 m·s-1		
*DO NOT CONNECT FUSE IN COMBINER BOX WITH TWO OR MORE STRINGS IN PARALLEL CONNECTION.			

## THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45 ± 2
Temperature coefcient of Pmax		%/°C	-0.30
Temperature coefcient of Voc		% / °C	-0.24
Temperature coefcient of Isc		%/°C	0.045

<sup>\*</sup>NOCT; open-circuit module operation temperature at 800 W  $\cdot$  m-2 irradiance, 20°C ambient temperature, 1 m  $\cdot$ s-1 wind speed.

#### **CONSTRUCTION MATERIALS**

Cell ( material / quantity )	mor	nocrstalline silico	n / 6 x 22
Glass (material / thickness)	low-iron t	empered glass /	2+2 mm
Frame (material)		anodized alumin	num alloy
Junction box (type / protection d	egree)	3 bypass diodes	s / ≥ IP68
Cable (length / cross-sectional a	ırea)	± 300 mm or cus length / 4 mm²	stomized



Pieces per Container

594



# **SERVICE SUPPORT**

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