

JHPV TECH

Investment

EPC(1MW~100MW)

Solar panels

lithium batteries

Inverters

Energy Storage System

Providing high quality energy storage



JHPV TECH

BRAND HISTORY

5 Advantages

1. Factory direct pricing
2. More stock: over \$5 million
3. Resident Chinese engineers
4. Design and Construction: 1MW-100MW
5. Investment from 1MW to 100MW

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

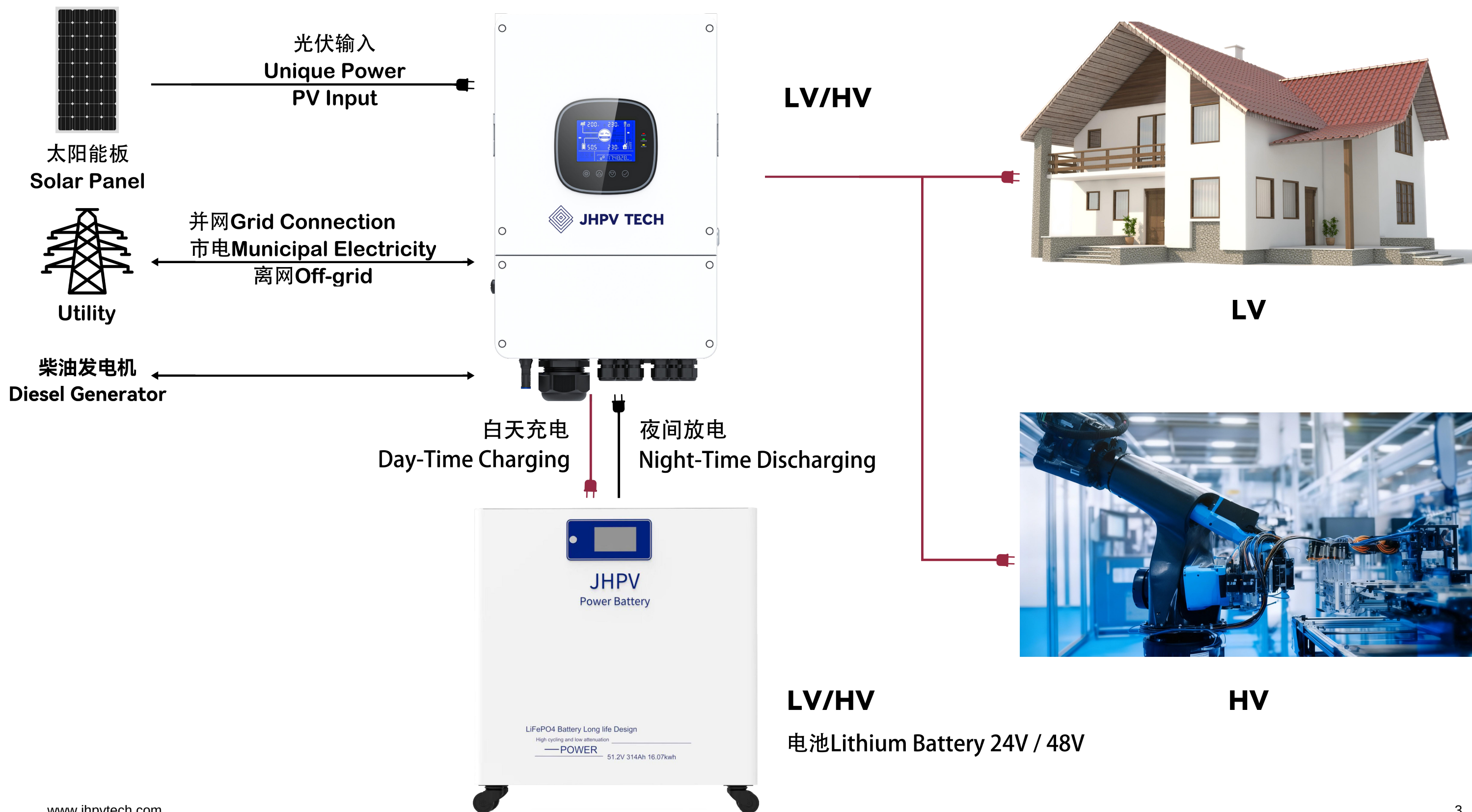
It established a European branch and a Singapore branch, engaged in Cell and silicon wafer sales

2025

We have developed the markets of the Netherlands, Germany, Iraq and Egypt 24-hour power supply

PHOTOVOLTAIC SYSTEM SOLUTIONS

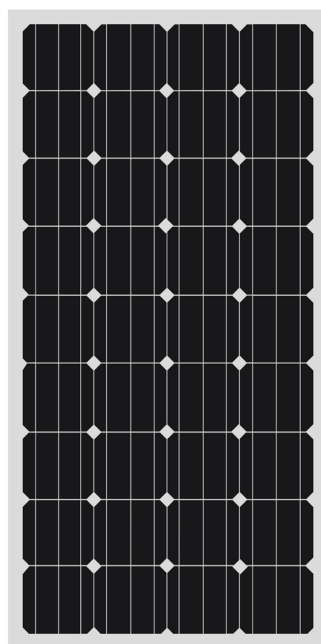
Solar Cell System Off Grid Type



PHOTOVOLTAIC SYSTEM SOLUTIONS

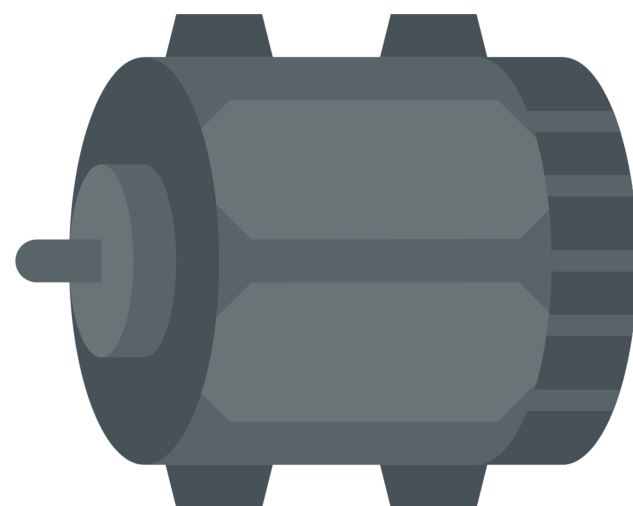
NO Need Battery

太阳能板
Solar Panels

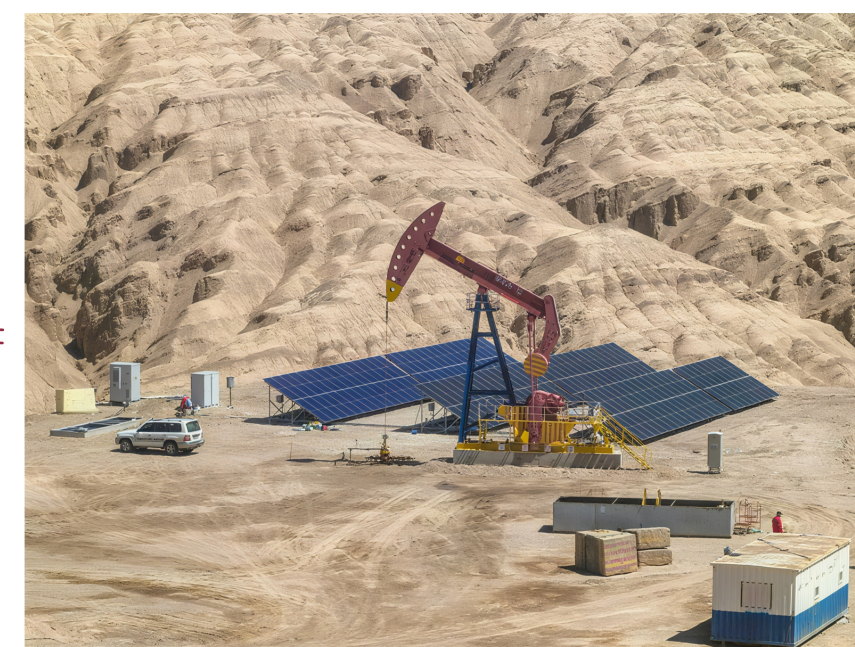


光伏输入
Unique Power
PV Input

发电机
Generator



Solar Water Pump



Solar Oil Pump



HYBRID INVERTER >>>

JHPV-6P

Performance characteristics

Efficiency • 2 High-Efficiency MPPT Input, efficiency up to 99.9% • Up to 22A+22A PV input current	User-Friendly • Industrial design with a modern aesthetic look • Easy to install and simple to use
Reliable • Outputs high quality pure sine wave AC power • 6kw load power for most household needs • 2 charging modes are available	All in one • Up to 135A charging current • Support Li-ion battery BMS communication
Safety • Comprehensive security from hardware to software • Multiple safety certifications • Rated IP65, suitable for outdoor use	Intelligent • Exclusive Li-ion battery BMS dual activation • Time-slot function to save cost • Energy saving mode function

MODEL	JHPV-6P	CAN BE SET
AC Output		
Rated Output Power	6000W	
Max. Peak Power	2 times of rated power,10s	
Rated Output Voltage	230Vac (200/208/220/230/240Vac Settable)	✓
Rated Output Current	26.1Aac	
Rated Frequency	50Hz / 60Hz	✓
Waveform	Pure sine wave	
Switch Time	10ms (Typical)	

Technical parameters

LV



MODEL	JHPV-6P	CAN BE SET
Battery		
Battery Type	Lithium-ion / Lead-acid / User-defined Battery	✓
Rated Battery Voltage	48Vdc	
Battery Voltage Range	40Vdc ~ 60Vdc	✓
Max. Discharging Current	135Adc	✓
Max. Grid/Generator Charging Current	135Adc	✓
Max. PV Charging Current	135Adc	✓
PV Input		
No. of MPPT Trackers	2	
Max. Access Power	12000W	
Max. PV Input Power	6000W + 6000W	
Max. PV Input Current	22Adc + 22Adc	
Max. Input Short-Circuit Current	33Adc + 33Adc	
Max. Input Voltage	500Vdc / 500Vdc	
PV Start-up Voltage	60Vdc / 60Vdc	
MPPT Operating Voltage Range	65Vdc ~ 450Vdc / 65Vdc ~ 450Vdc	
Grid/Generator Input		
Rated Input Voltage	220Vac / 230Vac	
Input Voltage Range	Grid power (170Vac ~ 280Vac) ±2% Generator power (90Vac ~ 280Vac) ±2%	
Input Frequency Range	50Hz : 47Hz ~ 55Hz, ±0.3Hz 60Hz : 57Hz ~ 65Hz, ±0.3Hz	
Bypass Overload Current	40Aac	
Efficiency		
MPPT Tracking Efficiency	99.9%	
Max. Efficiency	97.5%	
GENERAL DATA		
Parallel Capacity	1~6 units	
Dimensions (W * H * D)	300*460*217.5mm	
Weight	17.5kg	
Protection Degree	IP65	
Ambient Temp	-40 ~ 60°C, >45°C Derated	
Noise	<55dB	
Cooling Method	Heat sink + intelligent air cooling	
Warranty	5 years	
COMMUNICATION		
Internal Interface	RS485/CAN/USB/Dry Contact	✓
External Module	WiFi (Optional)	✓
CERTIFICATION		
Safety	IEC62109-1、IEC62109-2	
EMC	EN61000	
RoHS	Yes	

JH2 5-12kW Low Voltage Hybrid Inverter

20A-50A/h

JHPVTECH's Low Voltage solution of hybrid inverter, allow to be compatible with both LFP and Lead-Acid Batter, supporting storing energy from diesel generator, provide a most cost effective solution for those entry-level market. H2 covers 5 -12kW, 2MPPTs, single phase grid.



LV

- Max 20A input current to better match high power panel
- 200% DC oversizing
- Built-in meter zero export limiter
- Max. 4 pcs parallel for on-grid and off-grid operation
- Heat-resistant (> 50°Cwith derating)
- Support generator / smart load access

JH2-5K-LS2 | JH2-6K-LS2 | JH2-7.6K-LS2
JH2-8K-LS2 | JH2-10K-LS2 | JH2-12K-LS2

Technical parameters

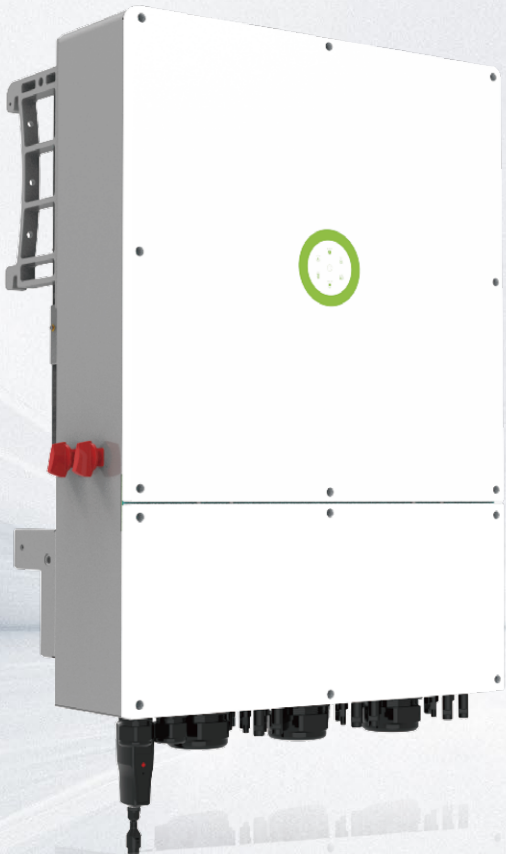
MODEL	JH2-5K-LS2	JH2-6K-LS2	JH2-7.6K-LS2	JH2-8K-LS2	JH2-10K-LS2	JH2-12K-LS2
DC Input						
Max. PV Array Power [Wp]@STC	10000	12000	15200	16000	20000	24000
Max. DC Voltage [V]	500					
MPPT Voltage Range [V]	90 ~ 480					
Rated DC Voltage [V]	360					
Star Voltage [V]	80					
Max. DC Input Current [A]	20/20		40/40			
Max. DC Shor Circuit Current [A]	25/25		50/50			
No. of MPPT	2					
Batter Parameters						
Batter Type	Lead-acid or LiFePO4					
Batter Voltage Range [V]	40 ~ 60					
Max. Charging/Discharging Current [A]	100	120	190	190	240	
AC Output [On-grid]						
Rated AC Power [W]	5000	6000	7600	8000	10000	12000
Max. Apparent Power [VA]	5500	6600	8360	8800	10000	12000
Rated Output Current [A]@230Vac	21.8	26	33	34.8	43.5	52.2
Max. Output Current [A]	25	30	38	40	45.5	54.6
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180 ~ 280					
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging					
Total Harmonic Distortion [THDi]	<3%					
AC Input [On-grid]						
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180 ~ 280					
Rated Input Frequency [Hz]	50,60					
Max. Input Current [A]@230Vac	50	60	76	80	91	100
AC Output [Back-up]						
Max.Output Power [VA]	5000	6000	7600	8000	10000	12000
Max. Output Current [A]	25	30	38	40	45.5	54.6
Peak Output Apparent Power [VA]	6000,60s	7200,60s	9120,60s	9600,60s	12000,60s	13200,60s
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180 ~ 280					
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
Output THDv (@ Linear Load)	<3%					
Efciency						
Max. Efciency	97.6%					
Euro Efciency	97.0%					
Protection						
Batter Input Reverse Polarity Protection	Integrated					
Over load Protection	Integrated					
AC Shor Circuit Current Protection	Integrated					
DC Surge Protection	Integrated					
AC Surge Protection	Integrated					
Anti-islanding Protection	Integrated					
AFCI Protection	Optional					
RSD Protection	Optional					
Interace						
PV Connection	Terminal Block					
AC Connection	Terminal Block					
Batter Connection	Terminal Block					
Display	LED+APP					
Communication	Wi-Fi/Ethernet/4G(Optional)					
General Parameters						
Topology	Non-isolated					
Operating Temperature Range	-40°C to +60°C (50°C to 60°C with derating)					
Cooling Method	Intelligent Fan cooling					
Ambient Humidity	0-100% Non-condensing					
Altitude	4000m (>3000m Power Derating)					
Noise [dBA]	<50					
Ingress Protection	IP65					
Dimensions [H*W*D] [mm]	590*380*241					
Weight [kg]	29					
Warranty [Year]	5/10					
Standard	EN 62109-1/2, EN 61000-6-1/2/3/4,IEC 62116, IEC 61727,IEC62183,PEA&MEA, NBR 16149, NBR 16150,PORTARIA N° 140,515, NRS097					

50A-1000A/h

JH Series Hybrid Solar Inverter

hotel supermarket ice cream store

JH series three-phase high-voltage hybrid inverter, supports multi-unit parallel operation suitable for small and medium-sized industrial and commercial application scenarios. This series includes multiple power levels of 29.9/50kW, capable of achieving UPS-level grid and off-grid switching, supports generator access, supports a maximum input current of 22.5A. The AC side supports 1.1 times continuous AC overload, standard configuration includes AFCI protection, and type II surge protection for AC and DC ensures power consumption safety.



HV



Better Performance

- String current 22.5A, matching high power (210) PV panel
- 6 MPPT, support 200% oversizing
- Adopting C&I 280Ah cell, good performance and higher energy density



Ultimate Safety

- AFCI as standard to prevent fire
- AC and DC type II SPD
- IP66 protection level



Remarkable adaptability

- Parallel connection up to 10PCS, easy for expansion
- Accessing to DG(diesel generator), no need for additional equipment
- Supports UPS-level on- and off-grid switching

Technical parameters

MODEL	JH-S-30K150A		JH-S-50K150A
DC Input			
Max. PV Array Power [Wp]@STC	59800		100000
Max. DC Voltage [V]			1000
MPPT Voltage Range [V]			180 ~ 850
Rated DC Voltage [V]			600
Start Voltage [V]			200
Max.DC Input Current [A]	4*45		6*45
Max.DC Short Circuit Current [A]	4*55		6*55
Number of Strings per MPPT	2		2
Battery Parameters			
Battery Type			LiFePO4
Battery Voltage Range[V]			180 ~ 800
Max.Charging/Discharging Current [A]			150
AC Output [On-grid]			
Rated AC Power [W]	29900		50000
Max.Apparent Power[VA]	29900		55000
Rated Output Current[A]@230V	43.3		72.5
Max. Output Current [A]@230V	43.3		79.8
Rated AC Voltage/Range [V]	3+N+PE/ 3+PE, 380/ 400		
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65		
Power Factor [cos φ]	0i - 1 - 0c		
Total Harmonic Distortion [THDi]	<3%		
AC input [On-grid]			
Rated AC Voltage [V]	3+N+PE,380/400		
Rated Output Frequency [Hz]	50,60		
Max. Input Current [A]	200		
AC Output [Back-up]			
Max.Output Power [VA]	29900		55000
Peak Output Apparent Power [VA]	29900		75000,5s
Rated AC Voltage [V]	3+N+PE,380/400		
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65		
Output THDv (@ Liner Load)	<3%		
AC Input [Generator]			
Max. Input Power [W]	138000		
Max. Input Current [A]@230V	200		
Rated Input Voltage [V]	3+N+PE, 380/400		
Rated Input Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65		
Efficiency			
Max. Efficiency	≥98.0%		
Euro Efficiency	97.3%		
Max. Battery to AC Efficiency	96.0%		
Protection			
PV Reverse Polarity Protection	Integrated		
Anti-islanding Protection	Integrated		
AC Overcurrent Protection	Integrated		
AC Short Circuit Protection	Integrated		
AC Overvoltage Protection	Integrated		
DC switch	Integrated		
DC Surge Protection	II		
AC Surge Protection	II		
AFCI	Integrated		
RSD	Optional		
General Parameters			
Communication	Wi-Fi/Ethernet/CAN/RS485		
Topology	Transformerless		
Operating Temperature Range	-30°C to +60°C (45°C to 60°C with derating)		
Cooling Method	Smart Fan Cooling		
Ambient Humidity	0-100% Non-condensing		
Altitude	3000		
Ingress Protection	IP66		
Dimensions [H*W*D] [mm]	630*630*290		
Weight [kg]	76		
Warranty [Year]	5/10		
Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G99, G100, C10-11, UNE217002, NRS097 NBR16149/NBR16150, IEC62109-1/-2, NBT32004-2018, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4		

7

JHB2 IP20

JHB2(IP20) is a flexible and safe battery energy storage system, featuring an intelligent BMS and flexible configuration options, suitable for efficient backup power during emergency outages and renewable energy storage.This solution is flexible in configuration and economical, and can meet the project needs of different customers from tens of kWh to MWh.



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Scalability
Supporting 4 clusters in parallel, a capacity of one cluster ranges from 57.3 to 186.2kWh
- 

Cost-effective
Affordable high-performance 280Ah LFP battery system with smart thermal management
- 

Smart O&M
Supporting remote firmware upgrade

JHB2-X-HV5

Technical parameters

System	JHB2-X-HV5
Battery System energy [kWh]	57.3~186.2
Rated Capacity [Ah]	280
Charge/Discharge Current [A]	150
No. of Modules	4~13
Communication	CAN
Operating Temperature Range [°C]	Charging:0~55; Discharging:-20~55
Cooling Method	Smart Fan Cooling
Relative Humidity	5~90(No Condensing)
Altitude [m]	2000
Ingress Protection	IP20
Mounting	Ground-Mounted
Control Module	JHBC2-HV5
Voltage Range [V]	160~1000
Weight [kg]	28
Dimension [H*W*D] [mm]	225*483*610
Battery Module	JHBU2-14.33-HV5
Rated Energy [kWh]	14.33
Weight [kg]	115
Dimension [H*W*D] [mm]	231*523*805
Applicable Standard	IEC62619-2017;UN38.3;IEC61000-6-2/4;IEC62477
Battery Rack	JHBT2-186.2-HV5
Number of installable battery modules	8~13
Supported energy storage system capacity [kWh]	114.6~186.2
Rack Weight [kg]	141
System weight with 13 battery modules [kg]	1671
Dimension [H*W*D] [mm]	1960*1106*857
Battery Rack	JHBT2-100.3-HV5
Number of installable battery modules	4~7
Supported energy storage system capacity(kWh)	57.3~100.3
Rack Weight [kg]	101
System weight with 7 battery modules [kg]	941
Dimension [H*W*D] [mm]	1243*1106*857

JH3 C&I Hybrid Inverter

Designed for high-energy demand C&I scenarios. As the world's first 1500V DC/400V AC hybrid inverter, it redefines commercial solar economics. By elevating system voltage by 50% over conventional 1000V systems, this innovation translates to significantly lower Levelized Cost of Energy (LCOE) from day one. A highly integrated system that combines on-grid, backup, and GEN connection, designed to support diverse scenarios.



- Global First: 1500V PV String Input
- Uninterrupted & Seamless Power
- Ultimate Energy Efficiency
- Scalable & Flexible (STS Integrated)
- Intelligent & Easy Management (Built-in EMS)
- Superior Safety & Protection
- Maximize Investment Returns (200% PV Input)
- AI-Powered Optimization

JH3-75K-T6 | JH3-80K-T6
JH3-99.9K-T8 | JH3-100K-T8
JH3-110K-T8 | JH3-125K-T8

MODEL	JH3-75K-T6	JH3-80K-T6	JH3-99.9K-T8	JH3-100K-T8	JH3-110K-T8	JH3-125K-T8
DC Input						
Max. PV Array Power [kWp]@STC	150	160	200	200	220	250
Max. DC Voltage [V]	1500	1500	1500	1500	1500	1500
MPPT Voltage Range [V]	300-1500	300-1500	300-1500	300-1500	300-1500	300-1500
Rated DC Voltage [V]	1050	1050	1050	1050	1050	1050
Start Voltage [V]	400	400	400	400	400	400
Max. DC Input Current [A]	40	40	40	40	40	40
Max. DC Short Circuit Current [A]	55	55	55	55	55	55
Number of Strings per MPPT	6*2	6*2	8*2	8*2	8*2	8*2
Battery Parameters						
Battery Type	LFP					
Battery Voltage Range[V]	750-950					
Max. Charging/Discharging Current [A]	200					
AC Output [On-grid]						
Rated AC Power [kW]	75	80	99.9	100	110	125
Max. Apparent Power[kVA]	75	80	99.9	100	110	125
Rated Output Current[A]	114.0 / 108.3	121.6 / 115.5	151.7 / 144.2	151.9 / 144.3	167.1 / 158.7	189.9 / 180.4
Max. Output Current [A]	114.0	121.6 / 115.5	151.7	151.9	167.1	189.9
Rated AC Voltage/Range	3 / N / PE, 220 V / 380 V, 230 V / 400 V					
Rated Output Frequency/Range [Hz]	50 / 60					
Power Factor [cos φ]	0i - 1 - 0c					
Total Harmonic Distortion [THDi]	< 3%					
AC input [On-grid]						
Rated AC Voltage	3 / N / PE, 220 V / 380 V, 230 V / 400 V					
Rated Output Frequency [Hz]	50 / 60					
Max. Input Current [A]:Enable Back Up	228	243.2	303.4	303.8	334.2	379.8
Max. Input Current [A]:Disable Back Up	114.0	121.6	151.7	151.9	167.1	189.9
AC Output [Back-up]						
Max. Output Power [kVA]	75	80	99.9	100	110	125
Peak Output Apparent Power [kVA]	1.1 times rated power, continuous; 1.55 times rated power, 1s					
Rated AC Voltage	3 / N / PE, 220 V / 380 V, 230 V / 400 V					
Rated Output Frequency/Range [Hz]	50 / 60					
Output THDv (@ Liner Load)	< 3%					
AC Input [Generator]						
Max. Input Power [kW]	150.0	160.0	199.8	200.0	220.0	250.0
Max. Input Current [A]	228.0	243.2	303.4	303.8	334.2	379.8
Rated Input Voltage	3 / N / PE, 220 V / 380 V, 230 V / 400 V					
Rated Input Frequency/Range [Hz]	50 / 60					
Efficiency						
Max. Efficiency	≥98%					
Euro Efficiency	≥97.5%					
Max. Battery to AC Efficiency	≥98%					
Protection						
PV Reverse Polarity Protection	Integrated					
Anti-islanding Protection	Integrated					
AC Overcurrent Protection	Integrated					
AC Short Circuit Protection	Integrated					
AC Overvoltage Protection	Integrated					
DC switch	Integrated					
DC Surge Protection	II					
AC Surge Protection	II					
PV Terminal Temperature Detection	Integrated					
AFCI	optional					
String-Level Disconnecter	Integrated					
General Parameters						
Communication	LED Indicators, WLAN + APP					
Topology	Transformerless					
Operating Temperature Range	-30°C to +60°C (45°C to 50°C with derating)					
Cooling Method	Smart Air Cooling					
Ambient Humidity	5~95%(No Condensing)					
Altitude [m]	3000					
Ingress Protection	IP66					
Dimensions [H*W*D] [mm]	1027*895*342					
Weight [kg]	135					
Warranty [Year]	5/10					
Standard	IEC61727, IEC62116, IEC62109-1/-2, EN61000-6-2/-4					

JHB3 Series C&I Battery



With enhanced power capacity and extended configuration options, the CB3 battery is built to handle even the most complex installation requirements, giving installers more flexibility, scalability, and performance than ever before.

Modular Stackable Design

Its modular design allows for straightforward stacking without additional brackets, simplifying installation and saving space.

Flexible Configuration

The battery is compatible with SAJ CH2 and CH3 series inverters. It supports flexible capacity requirements for a single cluster, ranging from 60 kWh to 260 kWh.

High-Efficiency Cell & Long Warranty

Featuring a 314Ah cell design and supporting a 95% Depth of Discharge (DoD), it maximizes energy utilization. This robustness is backed by a 10-year cell warranty.

Scalable High-Voltage System

The high-voltage cabinet supports the parallel connection of multiple battery clusters. This enables the system to reach a maximum scalable capacity of 1.25 MW / 10.4 MWh for both on-grid and off-grid applications.



JHB3-M20

MODEL	JHB3-M20
Nominal Capacity [A]	314
Nominal Energy [kWh]	20.096
Rated Voltage [Vdc]	64
Rated Charging/Discharging Current [A]	157
Max Charging/Discharging Current [A]	200
DoD [%]	0.95
Operating Temperature Range	Charging 0~55°C; Discharging -10~55°C
Ambient Humidity	5%~85%
Altitude	3000m
Ingress Protection	IP20
Dimensions [W*D*H] [mm]	530*995*240
Weight [kg]	148

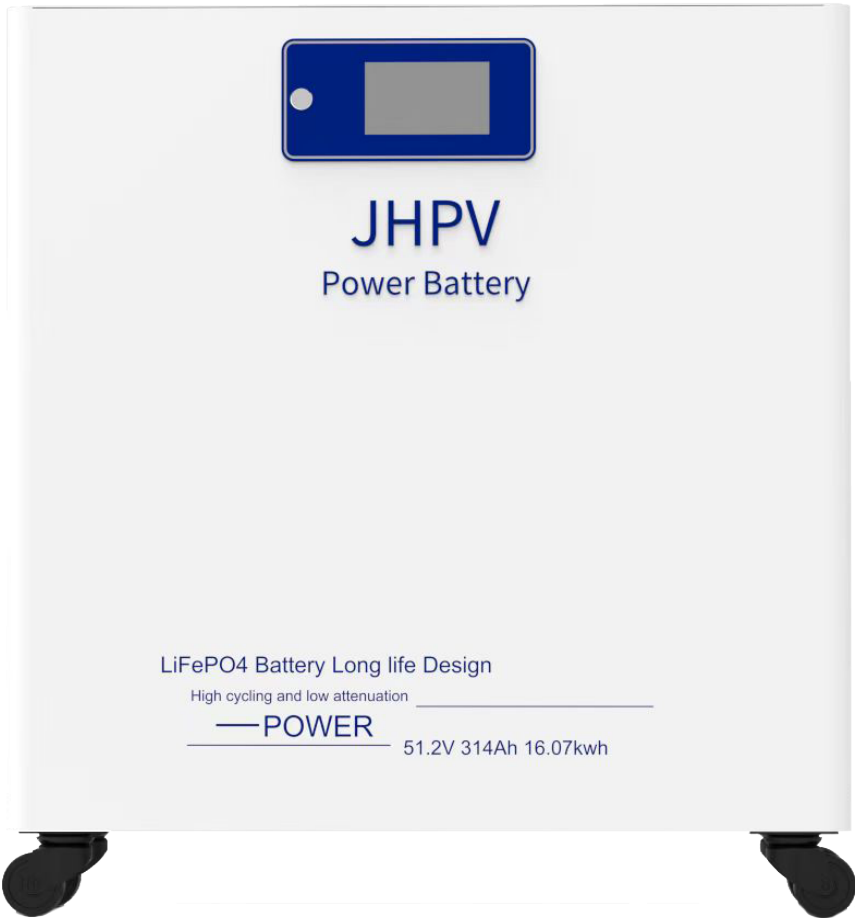
MODEL	JHB3-HVC
Voltage Range [V]	150-1000
Rated Charging/Discharging Current [A]	157
Max. Charging/Discharging Current [A]	200
Operating Temperature Range	-20°C~55°C
Ingress Protection	IP20
Dimensions [W*D*H] [mm]	530*995*170
Weight [kg]	35
Communication Protocol	CAN, RS485
Ambient Humidity	5%~85%
Altitude [m]	3000

Low voltage series lithium battery modules

JHB-L2 series rack type lithium iron phosphate battery

Product introduction >>

- Wall-hanging installation, save space
- Multiple in parallel, easy for expand, Automatic addressing, no need to dial a code
- Standard configuration with LCD display, real time knowing battery status, Screen direct selection of inverter communication
- Environmentally friendly non-polluting materials, free of heavy metals, green and environmentally friendly
- Standard cycle life is more than 8000 times
- Remote viewing error, online software upgrade



LV

Technical parameters

Model	JHB51.2-100W	JHB51.2-200W	JHB51.2-314HL	JHB51.2-628L
Nominal volt(V)	51.2			
Cell specification (Ah)	100	100	314	314
Nominal capacity (Ah)	100	200	314	628
Nominal energy capacity (kWh)	5.12	10.24	16.1	32.15
Working volt range (V)	44.8~58.4			
Recommended charging volt (V)	55.2			
Recommended discharging cut-off volt (V)	48			
Standard charging / discharging current (A)	0.5C	100	100	
Maximum continuous charging/discharging current (A)	1C (Customizable)	150	200	
Proper temperature (°C)	-30~60 (Recommended10~35)			
Allowable humidity range (%RH)	<85			
Storage temperature (°C)	-20~65 (Recommended10~35)			
Charging temperature (°C)	0~50			
Discharging temperature (°C)	-10~60			
Protection level	IP20			
Cooling method	Natural air cooling/ Intelligent fan			
Life cycles	8000+ times at 80% DOD			
Maximum size (D*W*H) mm	400*190*600	529*220*668	666*220*644	890*350*1060
Weight (kg)	45	87	118	268

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.

JH33

SOLAR PUMP CONTROLLER



JH33-4T5R5-E | JH33-4T7R5-E

JH33-4T011-E | JH33-4T015-E

JH33-4T022-E | JH33-4T030-E

JH33-4T037-E



Up to 99.8% MPPT efficiency



AM PMSM single phase,
Multi types of pumps



Automatic start and stop



Multi pump protection



Automatic hybrid compensation



Zero programming

Model	JH33-4T5R5-E	JH33-4T7R5-E	JH33-4T011-E	JH33-4T015-E	JH33-4T022-E	JH33-4T030-E	JH33-4T037-E
DC Input							
Max. Input Voltage [V]	900						
Start Voltage [V]	350						
Min. Input Voltage [V]	220						
MPPT Voltage Range [V]	450~850						
Recommended Input Working Voltage [V]	560						
Recommended PV Array Power [kW]	6.6~8.8	9~12	13.2~17.6	18~24	26.4~35.2	36~48	44~59.2
AC Input							
Input Voltage [V]	380(±15%)						
Input Frequency [Hz]	50/60						
AC Output							
Output Power [kW]	5.5	7.5	11	15	22	30	37
Rated Current [A]	13	17	25	32	45	60	75
Output Voltage [V]	3PH 0-380						
Output Frequency [Hz]	0-50/60						
Control Performance							
Control Mode	V/F, SVC						
Overload Capability	150% of rated current: 60 seconds; 180% of rated current: 1 seconds						
Protection							
Undervoltage Protection	Integrated						
Overvoltage Protection	Integrated						
Overload Protection	Integrated						
Short-circuit Protection	Integrated						
Overheat Protection	Integrated						
Lack of Water Protection	Integrated						
Surge Protection	Integrated						
General Data							
Ingress Protection Degree	IP20						
Cooling Mode	Air cooling						
Communication Interface	RS485 communication interface						
Ambient Operating Temperature	-20℃~60℃ (>45℃, rated power will be derated for 1% by every additional 1℃)						
Operation Altitude	Ecommend <3000m (the rated power will be decreased for 1% by every additional 100m when the altitude is ≥ 2000m)						
Physical Dimension [H*W*D] [mm]	247*130*167		360*182*197		360*219*197	442*256*228	
Weight [kg]	2.6	2.7	7.05	7.15	10.45	13.5	13.8
Standard Warranty [Month]	18						
Certification Standards	CE						

Note: Total power of PV arrays can be 1.2~1.6 times of power of water pump as per irradiation conditions in different countries and areas.

JH33

SOLAR PUMP CONTROLLER



JH33-4T055-E | JH33-4T075-E
JH33-4T110-E | JH33-4T132-E
JH33-4T160-E | JH33-4T185-E
JH33-4T200-E



Up to 99.8% MPPT efficiency



AM PMSM single phase,
Multi types of pumps



Automatic start and stop



Multi pump protection



Automatic hybrid compensation



Zero programming

Model	JH33-4T055-E	JH33-4T075-E	JH33-4T110-E	JH33-4T132-E	JH33-4T160-E	JH33-4T185-E	JH33-4T200-E
DC Input							
Max. Input Voltage [V]	900						
Start Voltage [V]	350						
Min. Input Voltage [V]	220						
MPPT Voltage Range [V]	450~850						
Recommended Input Working Voltage [V]	560						
Recommended PV Array Power [kW]	66~88	90~120	132~176	158~211	192~256	222~296	240~320
AC Input							
Input Voltage [V]	380(±15%)						
Input Frequency [Hz]	50/60						
AC Output							
Output Power [kW]	55	75	110	132	160	185	200
Rated Current [A]	112	150	210	253	304	340	377
Output Voltage [V]	3PH 0-380						
Output Frequency [Hz]	0-50/60						
Control Performance							
Control Mode	V/F, SVC						
Overload Capability	150% of rated current: 60 seconds; 180% of rated current: 1 seconds						
Protection							
Undervoltage Protection	Integrated						
Overvoltage Protection	Integrated						
Overload Protection	Integrated						
Short-circuit Protection	Integrated						
Overheat Protection	Integrated						
Lack of Water Protection	Integrated						
Surge Protection	Integrated						
General Data							
Ingress Protection Degree	IP20						
Cooling Mode	Air cooling						
Communication Interface	RS485 communication interface						
Ambient Operating Temperature	-20℃~60℃ (>45℃, rated power will be derated for 1% by every additional 1℃)						
Operation Altitude	Ecommend <3000m (the rated power will be decreased for 1% by every additional 100m when the altitude is ≥ 2000m)						
Physical Dimension [H*W*D] [mm]	543*310*280	580*358*328		1199*502*355		1570*600*408	
Weight [kg]	22.7	38.93	40.07	87.68	88.42	88.9	179.8
Standard Warranty [Month]	18						
Certification Standards	CE						

Note: Total power of PV arrays can be 1.2~1.6 times of power of water pump as per irradiation conditions in different countries and areas.

BATTERY OUTDOOR CABINET

Product introduction >>

The battery outdoor cabinet is safe, reliable, intelligent, efficient and flexible to deploy. Through modular design and advanced management technology, it provides users with cost-effective energy storage solutions. From cell-level safety control to system-level intelligent scheduling, it fully meets the energy storage needs of different scenarios, and helps green energy transformation and intelligent upgrade of power systems. It adapts to a variety of hybrid inverter brands, fully adapts to support single-branch and two-branch inverters.

Performance characteristics >>

| Strong environmental adaptability

It has the characteristics of waterproof, dustproof, sun-proof, and corrosion-resistant. It can operate stably for a long time in high temperature, humid, dusty and other outdoor environments, protecting the battery from external erosion.

| Safety protection design

Fireproof materials or heat-insulating structures are usually used to reduce the risk of fire caused by battery overheating or short circuit; some products are equipped with anti-theft locks or intelligent monitoring systems to improve safety.

| Modularity and scalability

Supports flexible combination of multiple battery packs to meet different capacity requirements; reserved interfaces are convenient for later upgrades or connection to other devices (such as solar panels, inverters, etc.).

| Saving space and flexible deployment



Technical parameters

Model	JHHV-P4	JHHV-P5	JHHV-P6	JHHV-P7	JHHV-P8	JHHV-P9
Cell Parameters						
Cell type	Lithium Iron Phosphate Cell					
Cell specification	3.2V314Ah					
PACK Parameters						
Combination method	16S1P					
Rated voltage (V)	51.2					
Operating voltage (V)	48~56.8					
Rated electric energy (kWh)	16					
Standard charge /discharge power	0.5P					
System Composition						
System composition	4pack	5pack	6pack	7pack	8pack	9pack
Rated voltage (V)	204.8	256	307.2	358.4	409.6	460.8
Operating voltage (V)	192~227.2	240~284	288~340.8	336~397.6	384~454.4	432~511.2
Rated electric energy (kWh)	64.3	80.4	96.5	112.5	128.6	144.7
Maximum charge /discharge Rate	0.5P					
Protection&General parameter						
Dimension (D*W*H)mm	1300*750*1650	1300*750*1905	1300*750*2160	1300*1163*1395	1300*1163*1650	
Weight(t)	0.9	1.0	1.1	1.5	1.7	1.8
DC overcurrent protection	Yes					
DC short circuit protection	Yes					
DC overvoltage protection	Yes					
Over temperature protection	Yes					
Fire protection	Aerosol/Perfluorohexanone (Optional)					
Incoming line method	Side connection					
Environmental temperature(°C)	-20~50 (De-rating power from 45)					
Charging temperature(°C)	0~50					
Discharging temperature(°C)	-10~60					
Environmental humidity(%RH)	<95%RH, Non-condensing					
Working altitude(m)	8000Reduce capacity for use above 2000 meters)					
Protection level	IP54Key Device IP65)					
Cooling method	Industrial air conditioning					

Note: The actual product shall prevail. Parameters are subject to modification without prior notice.

BATTERY OUTDOOR CABINET

Product introduction >>

The battery outdoor cabinet is safe, reliable, intelligent, efficient and flexible to deploy. Through modular design and advanced management technology, it provides users with cost-effective energy storage solutions. From cell-level safety control to system-level intelligent scheduling, it fully meets the energy storage needs of different scenarios, and helps green energy transformation and intelligent upgrade of power systems. It adapts to a variety of hybrid inverter brands, fully adapts to support single-branch and two-branch inverters.

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Supports flexible combination of multiple battery packs to meet different capacity requirements; reserved interfaces are convenient for later upgrades or connection to other devices (such as solar panels, inverters, etc.).

| Saving space and flexible deployment

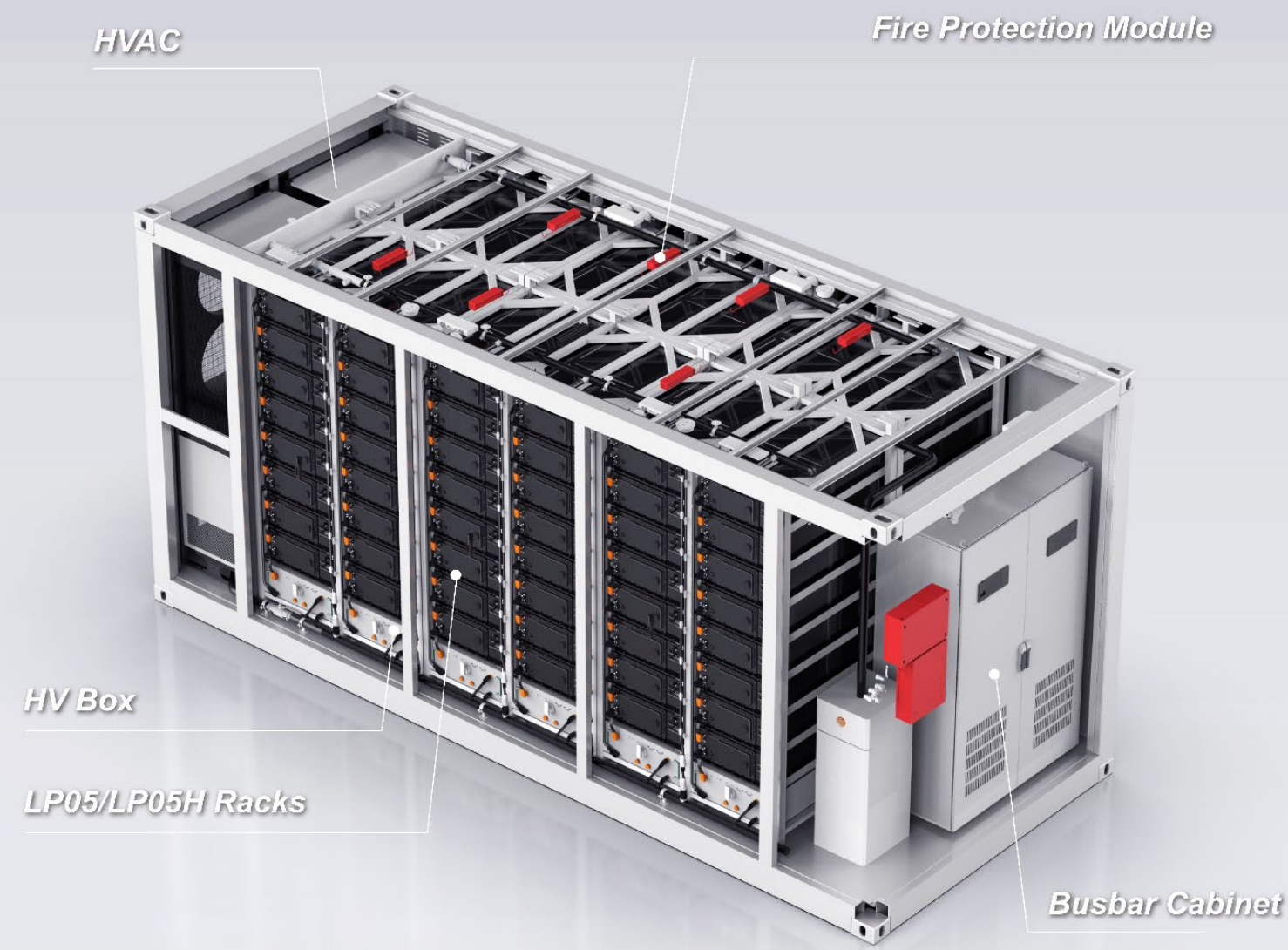


Technical parameters

Model	JHHV-P10	JHHV-P11	JHHV-P12	JHHV-P13	JHHV-P14	JHHV-P15
Cell Parameters						
Cell type	Lithium Iron Phosphate Cell					
Cell specification	3.2V314Ah					
PACK Parameters						
Combination method	16S1P					
Rated voltage(V)	51.2					
Operating voltage(V)	48~56.8					
Rated electric energy(kWh)	16					
Standard charge / discharge power	0.5P					
System Composition						
System composition	10pack	11pack	12pack	13pack	14pack	15pack
Rated voltage(V)	512	563.2	614.4	665.6	716.8	768
Operating voltage(V)	480~568	528~624.8	576~681.6	624~738.4	672~795.2	720~852
Ratedelectric energy(kWh)	160.8	176.8	192.9	209.0	225.1	241
Maximum charge /discharge Rate	0.5P					
Protection & General parameter						
Dimension (D*W*H)mm	1300*1163*1905		1300*1163*2160		1300*1163*2415	
Weight(t)	2.0	2.1	2.3	2.4	2.5	2.6
DC overcurrent protection	Yes					
DC shortcircuit protection	Yes					
DC overvoltage protection	Yes					
Over temperature protection	Yes					
Fireprotection	Aerosol/Perfluorohexanone (Optional)					
Incoming line method	Side connection					
Environmental temperature(°C)	-20~50(De-rating power from 45)					
Charging temperature(°C)	0~50					
Discharging temperature(°C)	-10~60					
Environmental humidity(%RH)	<95%RH, Non-condensing					
Working altitude(m)	8000Reduce capacity for use above 2000 meters)					
Protectionlevel	IP54KeyDeviceIP65)					
Cooling method	Industrial air conditioning					

Note: The actual product shall prevail. Parameters are subject to modification without prior notice.

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°C, Discharging: -20~50°C	Charging: 0~50°C, Discharging: -20~50°C
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

JH-M10DS144C 575~595W

N-22.84% Efficiency

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

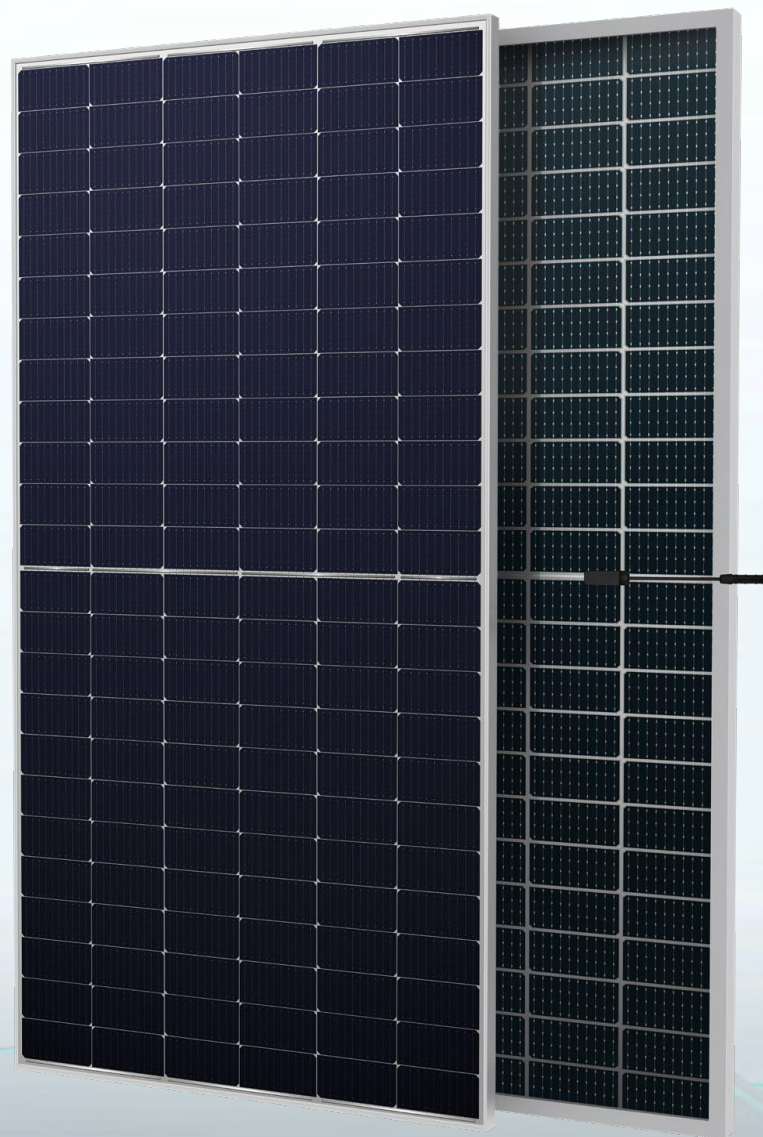
N-TYPE Bifacial Silver Frame



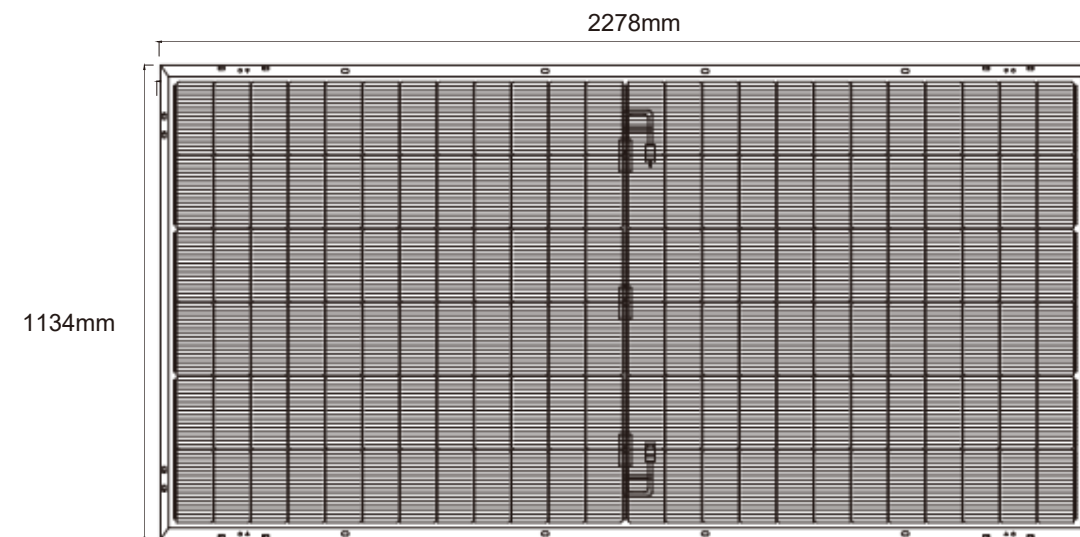
Dimension: 2278 mm x 1134mm x 30 mm

Weight: 31.7 kg

N



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	STC / NOCT	STC / NOCT	STC / NOCT	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 Isc(A)	13.89 / 11.33	13.95 / 11.38	14.01 / 11.43	14.07 / 11.48	14.13 / 11.55

*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)	2278 mm / 1134mm / 30 mm
Weight	31.7kg

PACKAGING SPECIFICATIONS

Number of modules per pallet	36
Number of pallets per 40' container	20
Pieces per Container	720

THERMAL CHARACTERISTICS

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

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

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.

CONSTRUCTION MATERIALS

Cell (material / quantity)	monocrystalline 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 mm ²

JH-M10DS132C6 620~640W

N-23.5% Efficiency

620~640W (182x210 mm Half-Cut Cell) 132 pcs

N-TYPE Bifacial Silver Frame



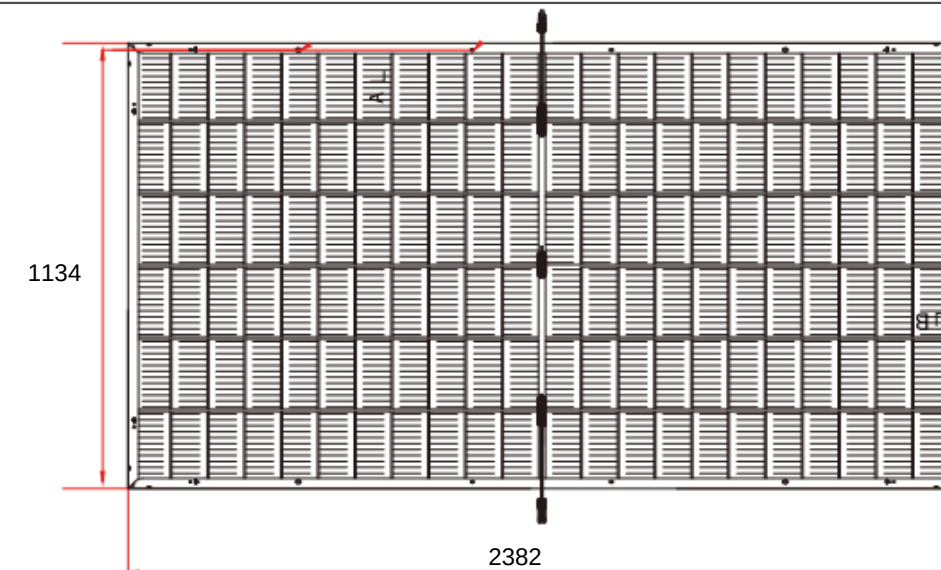
Dimension: 2382 mm x 1134mm x 30 mm

Weight: 33.1 kg



N

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	STC / NOCT	STC / NOCT	STC / NOCT	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 Imp(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 Isc(A)	15.91 / 12.82	15.92 / 12.83	15.93 / 12.84	15.94 / 12.85	15.95 / 12.86

*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 SPECIFICATIONS

Number of modules per pallet	36
Number of pallets per 40' container	20
Pieces per Container	720

THERMAL CHARACTERISTICS

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

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

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.

CONSTRUCTION MATERIALS

Cell (material / quantity)	monocrystalline silicon / 6 x 22
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 mm ²

JH-HimoX10 635-645W

N-23.9% Efficiency

BC

635~645W (182x192 mm Half-Cut Cell) 144 pcs

BC Bifacial Silver Frame

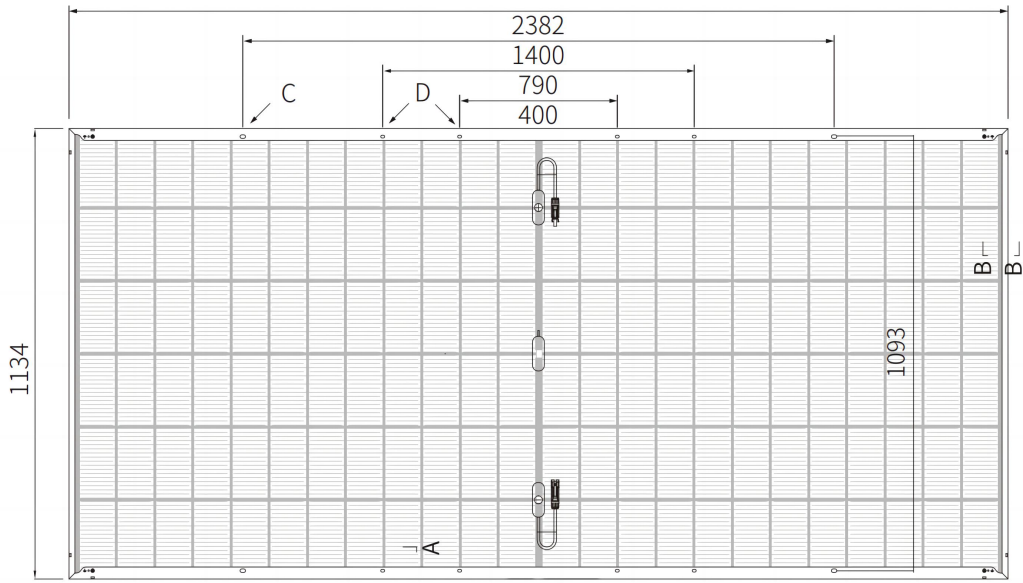


Dimension: 2382 mm x 1134mm x 30 mm

Weight: 33.5 kg



Product Appearance



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

Module Type	635W / 483.4W	640W / 487.2W	645W / 491.0W
Test Environment	STC / NOCT	STC / NOCT	STC / NOCT
Power output tolerances Pmax(W)	(0,+5)	(0,+5)	(0,+5)
Module efficiency(%)	23.5	23.7	23.9
Voltage at Pmax Vmpp(V)	44.57 / 42.36	44.67 / 42.45	44.77 / 42.55
Current at Pmax Impp(A)	14.25 / 11.42	14.33 / 14.49	14.41 / 11.55
Open-circuit voltage Vco(V)	53.92 / 51.24	54.02 / 51.34	54.12 / 51.43
Short-circuit current Isc(A)	14.89 / 11.96	14.98 / 12.03	15.06 / 12.10

*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	33.5 kg

PACKAGING SPECIFICATIONS

Number of modules per pallet	37
Number of pallets per 40' container	20
Pieces per Container	740

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45 ± 2
Temperature coefcient of Pmax	γ	% / °C	-0.26
Temperature coefcient of Voc	β	% / °C	-0.2
Temperature coefcient of Isc	α	% / °C	0.05

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

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.

CONSTRUCTION MATERIALS

Cell (material / quantity)	monocrystalline 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 mm ²

JH-HM10DS132C6 620~650W

N-24.1% Efficiency

620~650W (182x210 mm Half-Cut Cell) 132 pcs

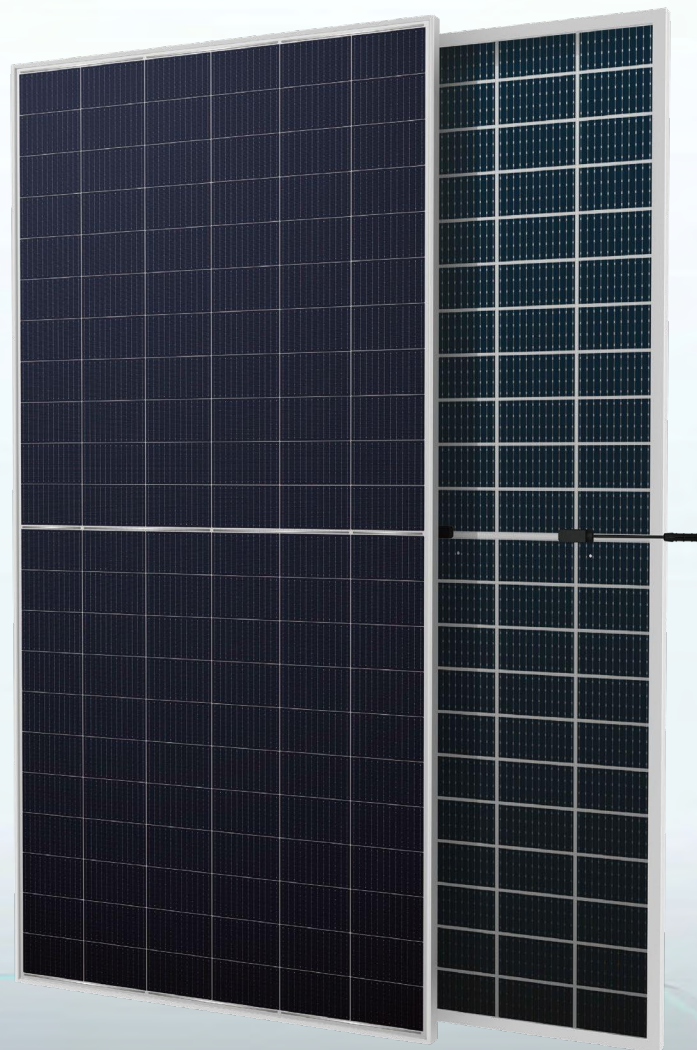
HJT-TYPE Bifacial Silver Frame



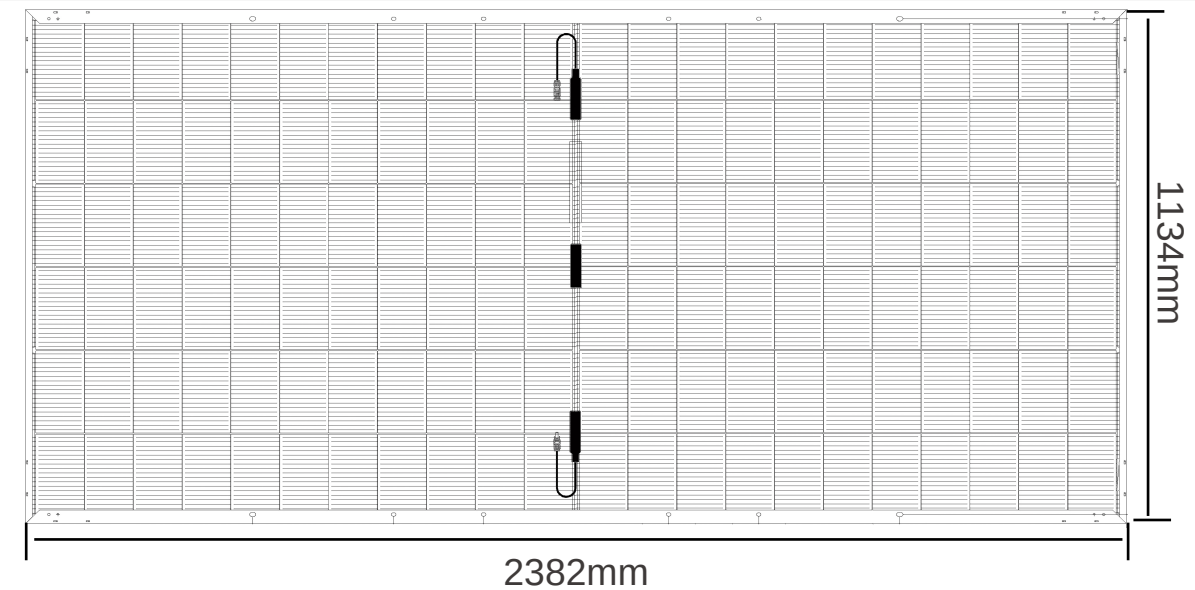
Dimension: 2382 mm x 1134mm x 30 mm

Weight: 32.3 kg

HJT



Product Appearance



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

Module Type	620W / 481W	625W / 478W	630W / 481W	635W / 484W	640W / 488W	645W / 492W	650W / 496W
Test Environment	STC / NOCT	STC / NOCT	STC / NOCT	STC / NOCT	STC / NOCT	STC / NOCT	STC / NOCT
Power output tolerances Pmax(W)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Module efficiency(%)	22.90	23.10	23.30	23.50	23.70	23.90	24.10
Voltage at Pmax Vmpp(V)	40.84 / 39.18	40.93 / 39.26	41.02 / 39.34	41.32 / 39.42	41.41 / 39.52	41.50 / 39.63	41.59 / 39.73
Current at Pmax Imp(A)	15.18 / 12.09	15.26 / 12.16	15.36 / 12.23	15.39 / 12.30	15.47 / 12.36	15.55 / 12.43	15.63 / 12.49
Open-circuit voltage Vco(V)	49.16 / 46.91	49.25 / 47.00	49.48 / 47.09	49.43 / 47.18	49.52 / 47.26	49.61 / 47.35	49.70 / 47.44
Short-circuit current Isc(A)	15.96 / 12.767	16.06 / 12.84	16.20 / 12.92	16.26 / 13.00	16.36 / 13.08	16.46 / 13.16	16.56 / 13.23

*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	32.3 kg

PACKAGING SPECIFICATIONS

Number of modules per pallet	36
Number of pallets per 40' container	20
Pieces per Container	720

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	43 ± 2
Temperature coefcient of Pmax	γ	% / °C	-0.22
Temperature coefcient of Voc	β	% / °C	-0.24
Temperature coefcient of Isc	α	% / °C	0.04

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

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.

CONSTRUCTION MATERIALS

Cell (material / quantity)	monocrystalline silicon / 6 x 22
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 mm ²

JH-G12DS132C 700~720W

N-23.18% Efficiency

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

N-TYPE Bifacial Sliver Frame



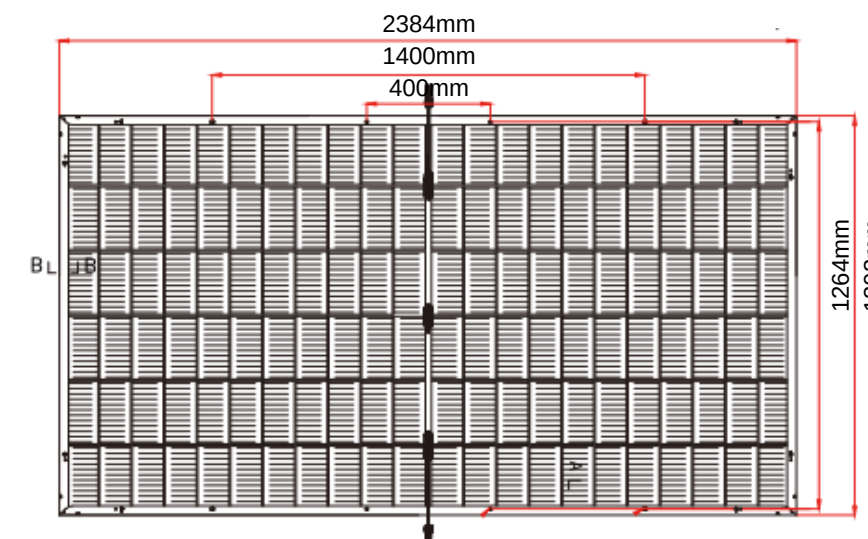
Dimension: 2384 mm x 1303mm x 33 mm

Weight: 38.7 kg

N



Product Appearance



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

Module Type	700W / 534W	705W / 540W	710W / 543W	715W / 547W	720W / 551W
Test Environment	STC / NOCT	STC / NOCT	STC / NOCT	STC / NOCT	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 Imp(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 Isc(A)	18.32 / 14.76	18.36 / 14.80	18.40 / 14.83	18.44 / 14.86	18.49 / 14.90

*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' container	18
Pieces per Container	594

THERMAL CHARACTERISTICS

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

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

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.

CONSTRUCTION MATERIALS

Cell (material / quantity)	monocrystalline silicon / 6 x 22
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 mm ²

SERVICE SUPPORT

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