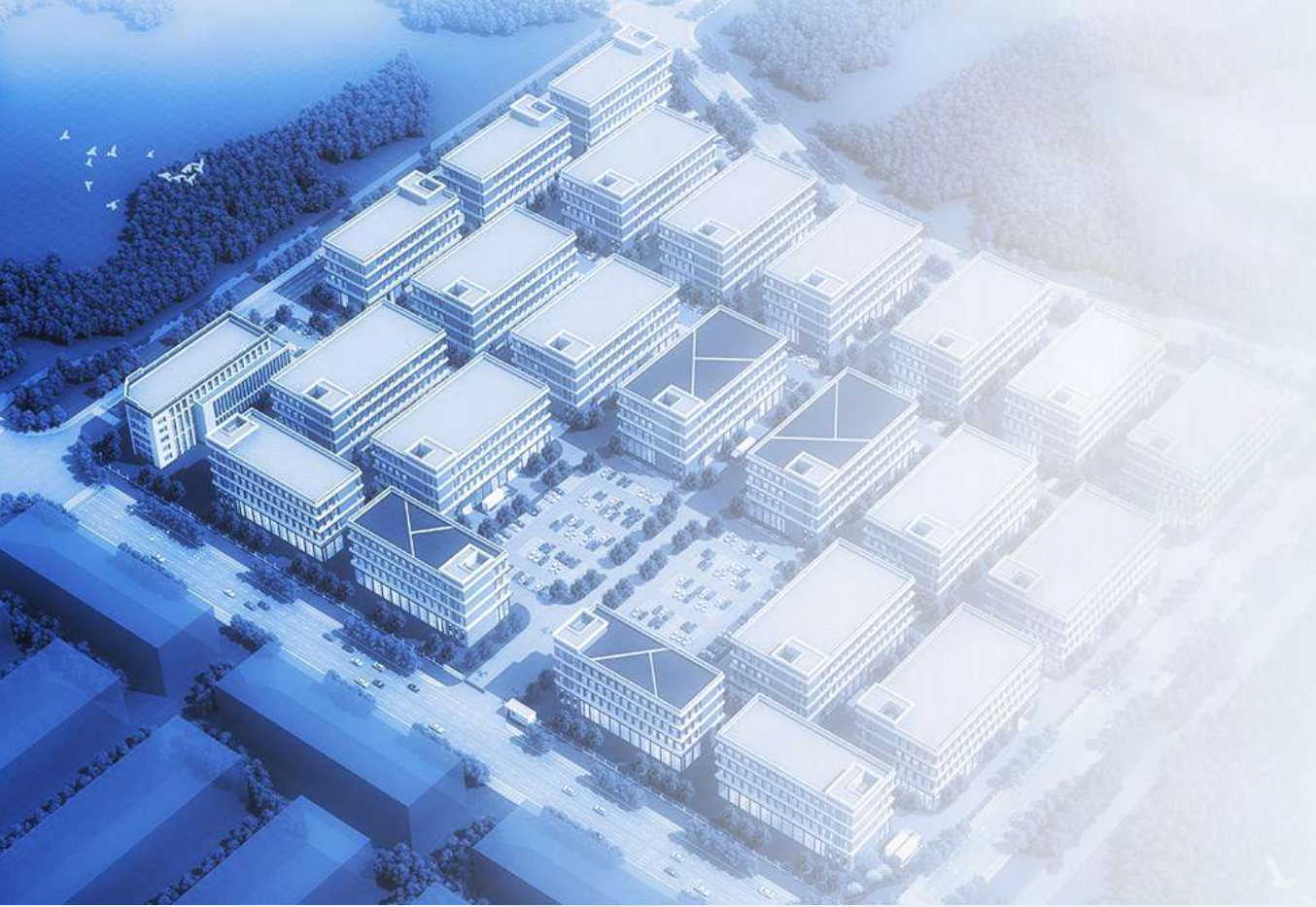


HGtesla

New Energy· New world

Industrial and commercial energy storage | Household energy storage | Intelligent charging gun

Integrated services in design, research and development, production, sales and aftermarket.

Shenzhen HGtesla Industrial Co.,LTD

Integrating energy storage technology solutions, product R&D and high-end manufacturing

Industrial and commercial energy storage | Household energy storage | Intelligent charging gun

R&D Cente (Shenzhen)

HGtesla is located in Guangming district of Shenzhen. It integrates design, R&D and manufacturing bases in Shenzhen, Shangrao, Fuzhou and Taihe, with a total area of 150,000 square meters. Focusing on the research, development, production and service of mobile storage, home storage and industrial and commercial energy storage products, HGtesla provides customers with a one-stop solution for all types of energy storage products. Its core team members are comprised of senior engineers who have been in the energy electronics industry for more than 15 years.

The company has achieved 11 certifications, such as ISO9001:2015 quality management system certification, as well as two invention patents, 55 utility model patents and appearance patents, and is a product standard drafting unit.

Major destination markets include China, the United States, Canada, Mexico, Europe, Australia, New Zealand, Israel, Mexico, Peru and more than 80 other countries and regions around the world.





HGtesla



Manufacturing Base (Shangrao, Fuzhou, Taihe)

technology and manufacturing bases in Shenzhen, Shangrao, Fuzhou and Taihe, with a total area of 150,000 square meters. The company has its own intelligent, automated and information technology thousand-level dust-free workshop and manufacturing area of over 100,000 sqm.The company has fully adopted the MES information production management system to ensure high quality and efficiency of production links and achieve traceability of globalized products.

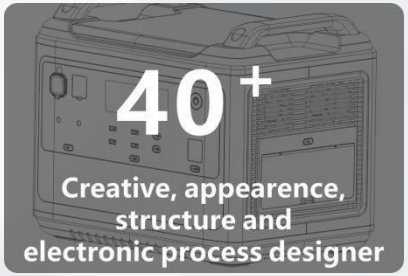
OEM/ODM Solution

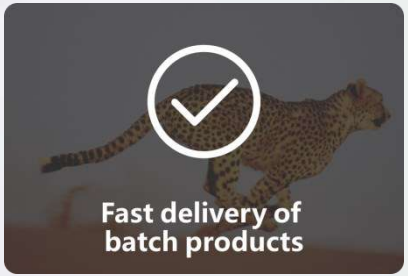
HG New Energy

For energy storage enterprises

Free

Provide one - stop service





Self - established National Level Energy StorageLaboratory

HG New Energy



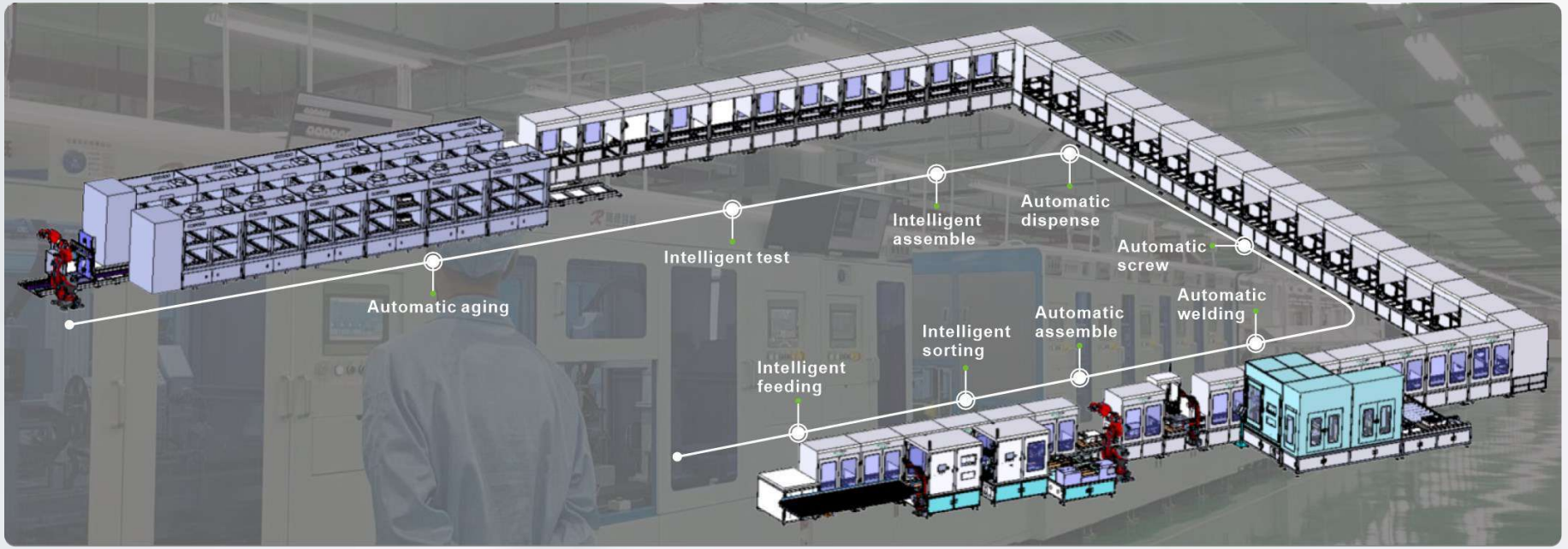


Self-established National Level Energy Storage Laboratory

2000m²


Automated production line

HG New Energy



100000+ ㎡
Total plant area

OEM
ODM

3 months
Design production/functional verification completed

1000000
Annual output capable

ENTREPRENEUR QUALIFICATION

HG New Energy

6
Invention Patents

11
Environmental Management System Certification

55
Variety Utility and appearance model patents

5
Group Standards Drafting Unit

Team

HG New Energy

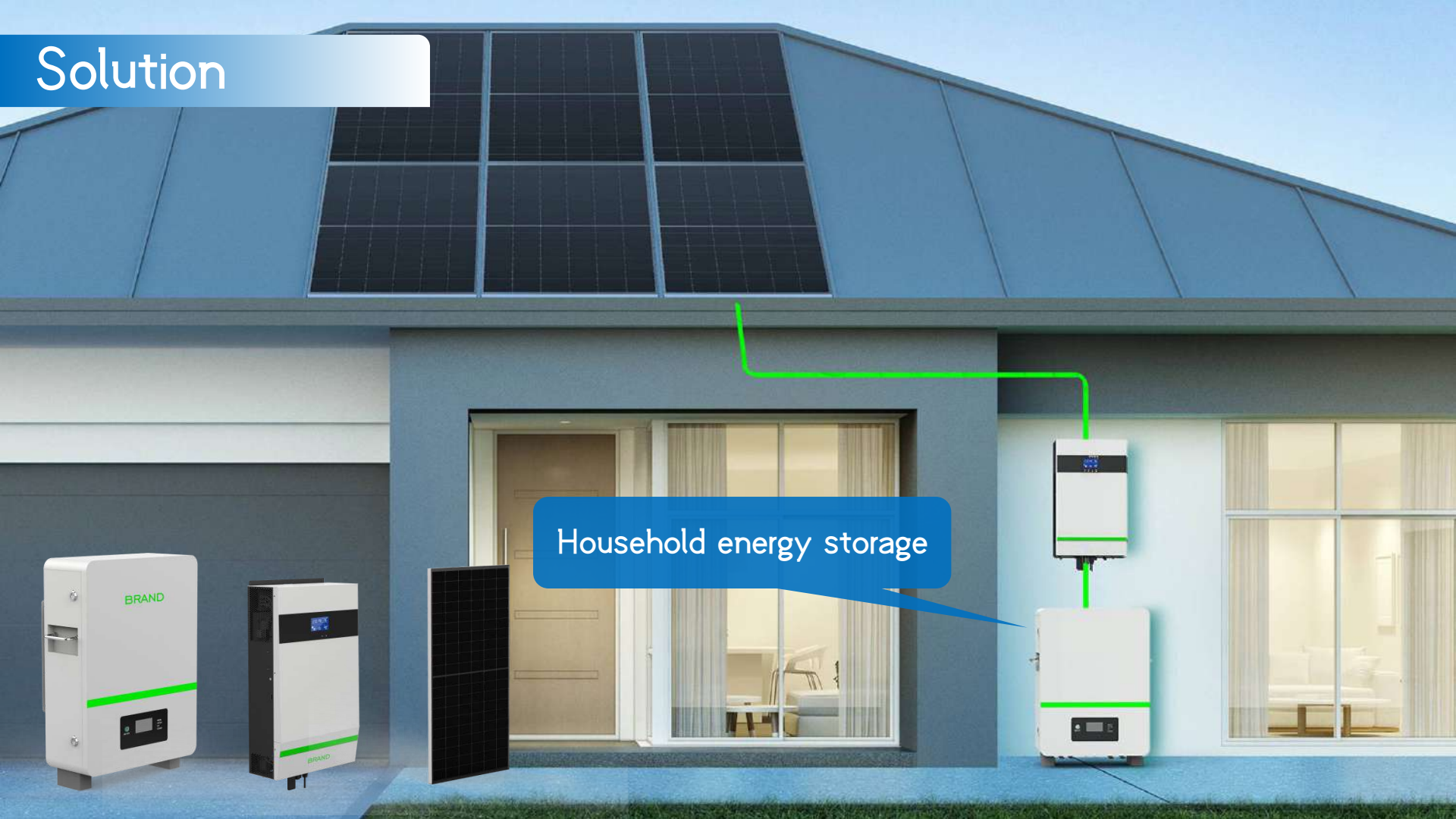
TEAM

HG team

Unity and struggle

A strong person is not strong, and no matter how strong he is, he is also a sheep. A strong team is a strong one, and unity is a wolf. Only unity can have strong energy, and unity is a team!

Solution



HOUSEHOLD ENERGY STORAGE

HG New Energy

FPB series HG-FPB5KW-A1

Nominal Voltage (V)	51.2	**Nominal Capacity (Ah)**	102
Nominal Energy (KWh)	5.22	**Battery Type**	LiFePO4
Battery Assembly Ways	16S1P	**Max.Charge/Discharge Current (A)**	100
Cycle Life	≥4000，25℃，80%DOD	**Max Number of Parallel**	5
Internal Resistance (mΩ)	≤50	**Discharge Temperature (℃)**	-20~75℃
Charging Temperature (℃)	0~45℃	**Working Environment (RH)**	≤85%
Ingress Protection	IP65	**Communication**	RS485/CAN/RS232
Cooling Method	Natural cooling	**Weight(kg)**	≈55.5
Size(mm)	460 x 182 x 680		

HOUSEHOLD ENERGY STORAGE

HG New Energy

FPB series HG-FPB10KW-A1

Nominal Voltage (V)	51.2	**Nominal Capacity (Ah)**	230
Nominal Energy (KWh)	11.78	**Battery Type**	LiFePO4
Battery Assembly Ways	16S1P	**Max.Charge/Discharge Current (A)**	200
Cycle Life	≥4000，25℃，80%DOD	**Max Number of Parallel**	5
Internal Resistance (mΩ)	≤50	**Discharge Temperature (℃)**	-20~75℃
Charging Temperature (℃)	0~45℃	**Working Environment (RH)**	≤85%
Ingress Protection	IP65	**Communication**	RS485/CAN/RS232
Cooling Method	Natural cooling	**Weight(kg)**	≈98
Size(mm)	470 x 240 x 750		

HOUSEHOLD ENERGY STORAGE

HG New Energy

FPB series HG-FPB5KW-A2

Nominal Voltage (V)	51.2	**Nominal Capacity (Ah)**	102
Nominal Energy (KWh)	5.22	**Battery Type**	LiFePO4
Battery Assembly Ways	16S1P	**Max.Charge/Discharge Current (A)**	100
Cycle Life	≥4000，25℃，80%DOD	**Max Number of Parallel**	5
Internal Resistance (mΩ)	≤50	**Discharge Temperature (℃)**	-20~75℃
Charging Temperature (℃)	0~45℃	**Working Environment (RH)**	≤85%
Ingress Protection	IP65	**Communication**	RS485/CAN/RS232
Cooling Method	Natural cooling	**Weight(kg)**	≈60
Size(mm)	800 x 184 x 472		

HOUSEHOLD ENERGY STORAGE

HG New Energy

FPB series HG-FPB5KW-A3

Nominal Voltage (V)	51.2	**Nominal Capacity (Ah)**	102
Nominal Energy (KWh)	5.22	**Battery Type**	LiFePO4
Battery Assembly Ways	16S1P	**Max.Charge/Discharge Current (A)**	100
Cycle Life	≥4000，25℃，80%DOD	**Max Number of Parallel**	5
Internal Resistance (mΩ)	≤50	**Discharge Temperature (℃)**	-20~75℃
Charging Temperature (℃)	0~45℃	**Working Environment (RH)**	≤85%
Ingress Protection	IP65	**Communication**	RS485/CAN/RS232
Cooling Method	Natural cooling	**Weight(kg)**	≈60
Size(mm)	523 x 220 x 560		

Inverter

HG New Energy

FPI series HG-FPI5KW-A1

Nominal Voltage	220Vac (Settable: 208/220/230/240 Vac)	**Voltage Range**	90~280Vac
Input Topology	L+N+PE	**Nominal Frequency**	50.0Hz/60.0Hz
Power Factor	≥0.99	**Output Topology**	L+N+PE
Output Voltage	220Vac (Settable: 208/220/230/240 Vac)	**Voltage Regulation**	≤±5%
Power Factor	1	**Harmonic Distortion**	≤3% (Linear Load) ≤5% (Non-linear Load PF=0.7)
Output Power	5000W	**PV Charging method**	MPPT
PV Max.Input Power	6000W	**Efficiency Tracking efficiency**	99.5% max
PV Tracking range	120-430Vdc	**Max PV Voltage**	500Vdc
Max PV Charge Current	80A	**Battery Voltage**	48V
MAX Charging Current	80A	**Communication Interface**	RS485/RS232
Parallel function	5	**Enclosure Protection Rating**	IP23
Weight(kg)	12kg	**Size(mm)**	300x150x494mm

STACKED HOME ENERGY STORAGE SYSTEM

HG New Energy

FPBS series

HG-FPBS10KW-A1

General Parameter			
Nominal Energy (KWh)	10.4	**Nominal Voltage(Vdc)**	102.4
Voltage Range(Vdc)	86.4~116.8	**Max Short Circuit Current / Duration**	2.3 / 0.0002kA / s
Rated Capacity (Ah)	102	**Max.Charge/Discharge Current (A)**	50
Ingress Protection	IP65	**Operating Temperature(℃)**	-10~55℃
Storage Temperature(℃)	-20~55℃	**Working Environment(RH)**	≤85%
Communication	RS485/CAN/RS232	**Size (mm)**	625 x 380 x 508
Battery Parameters			
Rated Capacity (Ah)	102	**Nominal Energy (KWh)**	5.2
Nominal Voltage(Vdc)	51.2	**Voltage Range(Vdc)**	43.2~58.4

STACKED HOME ENERGY STORAGE SYSTEM

HG New Energy

FPBS series

HG-FPBS15KW-A1

General Parameter			
Nominal Energy (KWh)	15.6	**Nominal Voltage(Vdc)**	153.6
Voltage Range(Vdc)	129.6~175.2	**Max Short Circuit Current / Duration**	2.3 / 0.0002kA / s
Rated Capacity (Ah)	102	**Max.Charge/Discharge Current (A)**	50
Ingress Protection	IP65	**Operating Temperature(℃)**	-10~55℃
Storage Temperature(℃)	-20~55℃	**Working Environment(RH)**	≤85%
Communication	RS485/CAN/RS232	**Size (mm)**	625 x 380 x 658
Battery Parameters			
Rated Capacity (Ah)	102	**Nominal Energy (KWh)**	5.2
Nominal Voltage(Vdc)	51.2	**Voltage Range(Vdc)**	43.2~58.4

STACKED HOME ENERGY STORAGE SYSTEM

HG New Energy

FPBS series

HG-FPBS20KW-A1

General Parameter			
Nominal Energy (KWh)	20.8	**Nominal Voltage(Vdc)**	204.8
Voltage Range(Vdc)	172.8~233.6	**Max Short Circuit Current / Duration**	2.3 / 0.0002kA / s
Rated Capacity (Ah)	102	**Max.Charge/Discharge Current (A)**	50
Ingress Protection	IP65	**Operating Temperature(℃)**	-10~55℃
Storage Temperature(℃)	-20~55℃	**Working Environment(RH)**	≤85%
Communication	RS485/CAN/RS232	**Size (mm)**	625 x 380 x 808
Battery Parameters			
Rated Capacity (Ah)	102	**Nominal Energy (KWh)**	5.2
Nominal Voltage(Vdc)	51.2	**Voltage Range(Vdc)**	43.2~58.4

Solar Panel

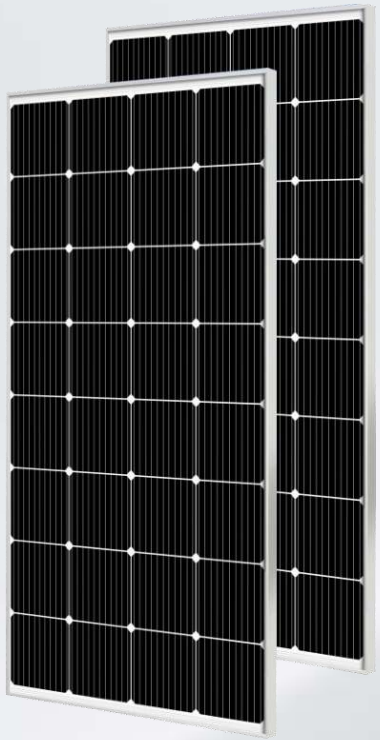
HG New Energy

SP series HG-SP120W-A

Power(W)	120W	**Module Efficiency(%)**	19.7%
Voltage at Pmax(Vmp)	18.24	**Current atPmax(Imp)**	6.58
Open CircuitVoltage(Voc)	21.80	**Short CircuitCurrent(Isc)**	6.97
Power Tolerance(w)	±3%	**Solar Cell(Type/Size)**	MONO(182mm)
Solar Cells Number	32Pcs(4x8)	**Dimension**	800x760x30mm
Weight	7.30Kg		

Solar Panel

HG New Energy

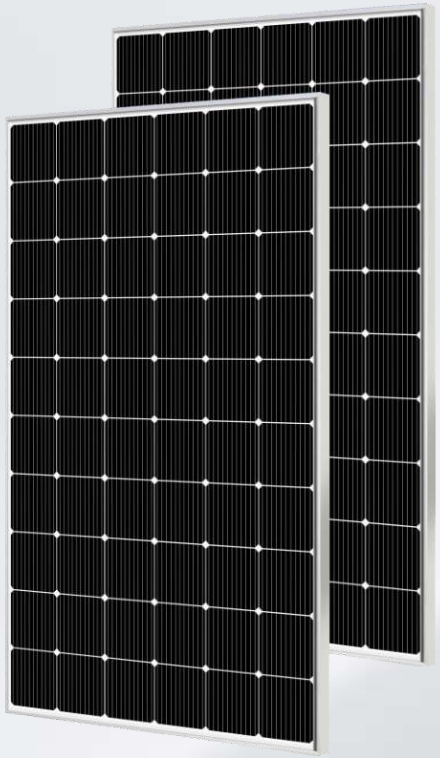


SP series HG-SP240W-A

Power(W)	240W	**Module Efficiency(%)**	20.7%
Voltage at Pmax(Vmp)	18.24	**Current atPmax(Imp)**	13.16
Open CircuitVoltage(Voc)	21.80	**Short CircuitCurrent(Isc)**	13.95
Power Tolerance(w)	±3%	**Solar Cell(Type/Size)**	MONO(182mm)
Solar Cells Number	32Pcs(4x8)	**Dimension**	1530x760x35mm
Weight	11.8Kg		

Solar Panel

HG New Energy



SP series HG-SP450W-A

Power(W)	450W	**Module Efficiency(%)**	20.8%
Voltage at Pmax(Vmp)	34.2	**Current atPmax(Imp)**	13.16
Open CircuitVoltage(Voc)	41.04	**Short CircuitCurrent(Isc)**	13.95
Power Tolerance(w)	±3%	**Solar Cell(Type/Size)**	MONO(182mm)
Solar Cells Number	60Pcs(6x10)	**Dimension**	1909x1134x35mm
Weight	22.9Kg		

Solution

HG New Energy

STORAGE SYSTEM

HG New Energy

ICP series HG-ICP200H100-A1

Model	HG-ICP200H100-A1	**Battery Type**	Lithium Iron Phosphate
Nominal Voltage(V)	716.8	**Operating Voltage Range(V)**	605~818
Cell Rated Capacity(Ah)	280	**DC Side Nominal Capacity(kWh)**	200
Composition	IP224S	**Rated Output Power(kW)**	100
Max. Output Current(A)	159	**Rated Grid Voltage(V)**	3N//PE.400
Rated Grid Frequency(Hz)	50/60	**Grid Frequency Range(Hz)**	45~55/55~65
THDi	< 3%(Rated power)	**DC Component**	<0.5% In
Power Factor	>0.99(Rated power)	**Rated Output Power (kW)**	100
Max. Output Current (A)	159	**Rated Output Voltage (V)**	3N//PE.400
Rated Output Frequency (Hz)	50/60	**Unbalanced Load Capacity**	100%
Ingress Protection	IP54	**Communication**	CAN,RS485
Weight(kg)	< 1500	**Dimension(mm)**	< 1340*1056*2000

STORAGE SYSTEM

HG New Energy

ICP series HG-ICP200H100-A2

Model	HG-ICP200H100-A2	**Battery Type**	Lithium Iron Phosphate
Nominal Voltage(V)	716.8	**Operating Voltage Range(V)**	605~818
Cell Rated Capacity(Ah)	280	**DC Side Nominal Capacity(kWh)**	200
Composition	IP224S	**Rated Output Power(kW)**	100
Max. Output Current(A)	159	**Rated Grid Voltage(V)**	3N//PE.400
Rated Grid Frequency(Hz)	50/60	**Grid Frequency Range(Hz)**	45~55/55~65
THDi	< 3%(Rated power)	**DC Component**	<0.5% In
Power Factor	>0.99(Rated power)	**Rated Output Power (kW)**	100
Max. Output Current (A)	159	**Rated Output Voltage (V)**	3N//PE.400
Rated Output Frequency (Hz)	50/60	**Unbalanced Load Capacity**	100%
Ingress Protection	IP54	**Communication**	CAN,RS485
Weight(kg)	< 1500	**Dimension(mm)**	< 1720*1300*2016

STORAGE SYSTEM

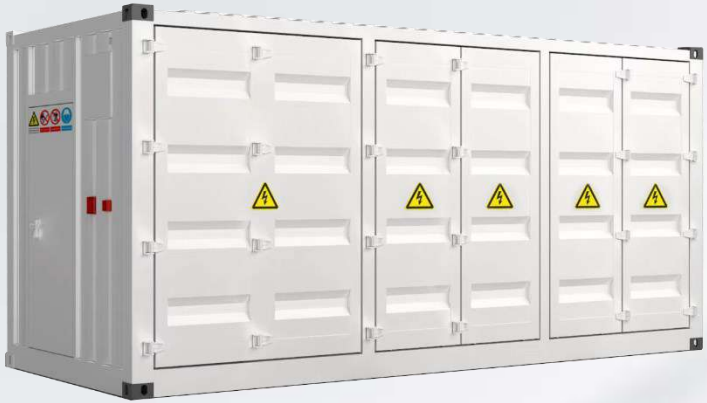
HG New Energy

ICP series HG-ICP400H200-A1

Model	HG-ICP400H200-A1	**Battery Type**	Lithium Iron Phosphate
Rated Charge/Discharge Performance	≤0.5C	**Nominal Voltage(V)**	716.8
Operating Voltage Range(V)	672~876	**Cell Rated Capacity(Ah)**	280
DC Side Nominal Capacity(kWh)	400	**Composition**	(1P224)*2P
Rated Charge/Discharge Power(kW)	200	**Max. AC Current(A)**	318
Rated Output Voltage(V)	3W/N/PE, 400	**Rated Frequency(Hz)**	50/60
THDu	<3%(Linear Load)	**Unbalanced Load**	100%
Ingress Protection	IP54	**Communication**	CAN,RS485
Communication Protocol	Modbus、IEC104	**Ambient Temperature(℃)**	-25~60
Battery Cooling Method	Liquid cooling system	**Fire Fighting System**	1230
Delivery Method	Integral transportation	**Relative Humidity**	0-95%,no condensation
Weight(T)	8.5	**Dimension(mm)**	2991*2438*2896

STORAGE SYSTEM

HG New Energy



ICP series HG-ICP1MH0.5M-A1

Model	HG-ICP1MH0.5M-A1	**Battery Type**	Lithium Iron Phosphate
Rated Charge/Discharge Performance	≤0.5C	**Nominal Voltage(V)**	716.8
Operating Voltage Range(V)	650~850	**Cell Rated Capacity(Ah)**	280
DC Side Nominal Capacity(MWh)	1MWh	**Composition**	(1P224)*5P
Rated Charge/Discharge Power(kW)	500 (100KW*5P)	**Max. AC Current(A)**	795
Rated Output Voltage(V)	3W/N/PE, 400	**Rated Frequency(Hz)**	50/60
THDu	<3%(Linear Load)	**Unbalanced Load**	100%
Ingress Protection	IP54	**Communication**	CAN,RS485
Communication Protocol	Modbus、IEC104	**Ambient Temperature(℃)**	-25~60
Battery Cooling Method	Liquid cooling system	**Fire Fighting System**	1230
Delivery Method	Integral transportation	**Relative Humidity**	0-95%,no condensation
Weight(T)	18	**Dimension(mm)**	6050*2440*2896

STORAGE SYSTEM

HG New Energy

ICP series HG-ICP3.5MH1.7M-A1

Model	HG-100M1PH10-A1	**Battery Type**	Lithium Iron Phosphate
Rated Charge/Discharge Performance	≤0.5C	**Nominal Voltage(V)**	736
Operating Voltage Range(V)	650~850	**Cell Rated Capacity(Ah)**	280
DC Side Nominal Capacity(MWh)	3.5MWh	**Composition**	(1P230)*17P
Rated Charge/Discharge Power(kW)	1700(100KW*17P)	**Max. AC Current(A)**	2703
Rated Output Voltage(V)	3W/N/PE, 400	**Rated Frequency(Hz)**	50/60
THDu	<3%(Linear Load)	**Unbalanced Load**	100%
Ingress Protection	IP54	**Communication**	CAN,RS485
Communication Protocol	Modbus、IEC104	**Ambient Temperature(℃)**	-25~60
Battery Cooling Method	Liquid cooling system	**Fire Fighting System**	1230
Delivery Method	Integral transportation	**Relative Humidity**	0-95%,no condensation
Weight(T)	22	**Dimension(mm)**	11800*2130*2180

HG New Energy

THANK YOU

Shenzhen HG New Energy Industrial Co.,LTD

HQ Add: 1703, 1704, 17F, Block A, CIMC Smart Park Building,Keneng Road, Guangming District, Shenzhen, Guangdong
R&D Center Add: 4-12/F Baiyisheng Building, Baihuayuan RD, Guangming District, Shenzhen
MFG.Center 1 Add: 5, 8, 10, 12 Buildings,Block B, Electronic Information Industrial Park, Lulin Street, Guangfeng District Shangrao, Jiangxi,
MFG.Center 2 Add: 4, 6 Buildings, Southern Innovation Industrial Park, Taihe County, Ji'an , Jiangxi

www.hgtesla.com