



ESS, Europe



PHOTOVOLTAIIC PRODUCT ATLAS 2023-2024 YEARS

Felicity solar

COMPANY PROFILE

Guangzhou Felicity Solar Technology Co., Ltd. (hereinafter referred to as "Felicity") is a photovoltaic high-tech enterprise integrating R&D, production, sales, engineering design, installation guidance and after-sales service. Founded in 2010, the company covers an area of 35 acres, has strong financial strength, has formed a number of modern production lines, and has an annual output value of nearly 1 billion yuan. At present, the company has more than 600 employees, including more than 100 senior experts in new energy and professional technical personnel in various disciplines. There are 6 production plants, 3 research and development institutions, and 25 product technology patents, including 20 practical invention patents and 5 invention patents; relying on many famous domestic colleges and universities, it has introduced advanced production equipment at home and abroad And production technology, concentrating on research and continuous innovation, forming unique technical advantages, product advantages and enterprise advantages.

The company focuses on the new solar energy industry, focusing on solar energy and focusing on the design, development and production of solar inverters, solar charge controllers, battery packs, solar panels, solar street lights and other series of products to meet the needs of domestic and foreign markets for solar system products. The products have passed CE, ROHS, SONCAP and other international certifications, and have business cooperation with the United States, Australia, Turkey, Japan, the United Arab Emirates, Singapore, Nigeria and other countries, covering more than 40 countries and regional markets, and have established 25 overseas branches .



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HYBRID SOLAR INVERTER

IVGM-LT Series

FEATURES

- Support Wi-Fi for mobile monitoring
- 48V low voltage battery, transformer isolation topology
- Max. charging/discharging current of 200A
- AC couple to retrofit existing solar system
- Support storing energy from diesel generator
- Power supply can be switched automatically and switching time within 20ms
- Support three phase imbalance



PRODUCT PARAMETERS

Model	IVGM10048-LT
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	200A/200A
Max. charging and discharging power	10000W
Battery type	Li-Ion/Lead-acid
DC Input Data (PV side)	
Max. recommended PV power	13000W
Max. PV voltage	900V
Start voltage	160V
PV voltage range	160V~900V
MPPT voltage range	200V~850V
MPPT Voltage Range for Full Load	450V~850V
Nominal voltage	720V
Max. input current	15A/15A
Max. shorted curent	18A/18A
No. of MPP Trackers	2
No. of Strings Per MPP Tracker	1+1
Grid Data	
Nominal Input Voltage	230Vac/400Vac
Input Voltage Range	184V~264.5V per phase*
Nominal grid frequency	50/60Hz*
Max. input current	30Aper phase
Max. Charge Current	200A
Max. AC output power	10000W
AC Output Rated Current	14.5A per phase
Max. output current	18A per phase
Max. Continuous AC Passthrough	30A per phase
Power factor	>0.99
Displacement power factor	0.8leading···0.8lagging
THDI	<3%
AC Output Data(Back Up)	
Rated output power	10000VA/10000W
Max. Output current	30A per phase
Rated AC output voltage	230Vac per phase
Rated AC output frequency	50/60Hz
Efficiency	
Max. efficiency	97.6%
Euro efficiency	97.6%
MPPT efficiency	99.9%
Protection	
Output over current protection	Integrated
Output over power protection	Integrated
Output shorted protection	Integrated
Anti-islanding protection	Integrated
GFCI Protection	Integrated
Insulation Resistor Detection	Integrated
General Data	
Operating temperature range	-25°C-60°C, > 45°C Derating
Protection degree	Ip65
Relative humidity	100%
Cooling concept	Smart cooling
Altitude	2000m
Communication	RS232/RS485
BMS Communication	CAN/RS485
Monitor module	Wi-Fi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty	10 years
Grid Regulation	DE-AR-N 4105;99/1; EN50549-1; CEI 0-21; AS 4777.2; NRS 097-2-1;
Safety Regulation	IEC 62109-1/2, IEC 62040-1
EMC	EN61000-6-1, EN61000-6-3
Net Weight	52.8KG
Gross Weight	69.4KG
Product Dimension	730*490*267mm
Package Dimension	810*600*491mm

HYBRID SOLAR INVERTER

IVGM-LS Series

48V



FEATURES

- Support Wi-Fi for mobile monitoring
- 48V low voltage battery, transformer isolation topology
- Max. charging/discharging current of 100A
- AC couple to retrofit existing solar system
- Support storing energy from diesel generator
- Power supply can be switched automatically and switching time within 20ms

PRODUCT PARAMETERS

Model	IVGM4648-LS		IVGM5048-LS	
Battery Input Data				
Battery Voltage Range	40V~60V			
Max. charging and discharging current	100A/100A			
Max. charging and discharging power	4600W		5000W	
Battery type	Li-Ion/Lead-acid			
DC Input Data (PV side)				
Max. recommended PV power	6000W		6500W	
Max. PV voltage	550V			
Start voltage	130V			
PV voltage range	90V~550V			
MPPT voltage range	100V~500V			
MPPT Voltage Range for Full Load	200V-500V		220V-500V	
Nominal voltage	360V			
Max. input current	15A/15A			
Max. shorted curent	18A/18A			
Number of MPP trackers/ strings per MPP tracker	2/1			
Grid Data				
Nominal Input Voltage	230Vac			
Input Voltage Range	184~264.5Vac*			
Nominal grid frequency	50/60Hz*			
Max. input current	40A			
Max. Charge Current	100A			
Max. AC output power	4600W		5000W	
AC Output Rated Current	20A		21.7A	
Max. output current	25A		25A	
Max. Continuous AC Passthrough	30A			
Power factor	>0.99			
Displacement power factor	0.99~1.00			
THDI	<3%			
AC Output Data(Back Up)				
Rated output power	4600VA/4600W		5000VA/5000W	
Max. Output current	30A			
Rated AC output voltage	230Vac			
Rated AC output frequency	50/60Hz			
Efficiency				
Max. efficiency	97.6%		97.6%	
Euro efficiency	97.0%		97.0%	
MPPT efficiency	99.9%			
Protection				
Output over current protection	Integrated			
Output over power protection	Integrated			
Output shorted protection	Integrated			
Anti-islanding protection	Integrated			
GFCI Protection	Integrated			
Insulation Resistor Detection	Integrated			
General Data				
Operating temperature range	-25°C~60°C, > 45°C Derating			
Protection degree	Ip65			
Relative humidity	100%			
Cooling concept	Nature			
Altitude	2000m			
Communication	RS232/RS485			
BMS Communication	CAN/RS485			
Monitor module	Wi-Fi/GPRS			
Display	LCD+LED			
Installation Style	Wall-mounted			
Warranty	10 years			
Grid Regulation	DE-AR-N 4105;99/1; EN50549-1; CEI 0-21; AS 4777.2; NRS 097-2-1;			
Safety Regulation	IEC 62109-1/2, IEC 62040-1			
EMC	EN61000-6-1, EN61000-6-3			
Net Weight	34.2KG			
Gross Weight	38.6KG			
Product Dimension	493*530*203mm			
Package Dimension	632*585*315mm			

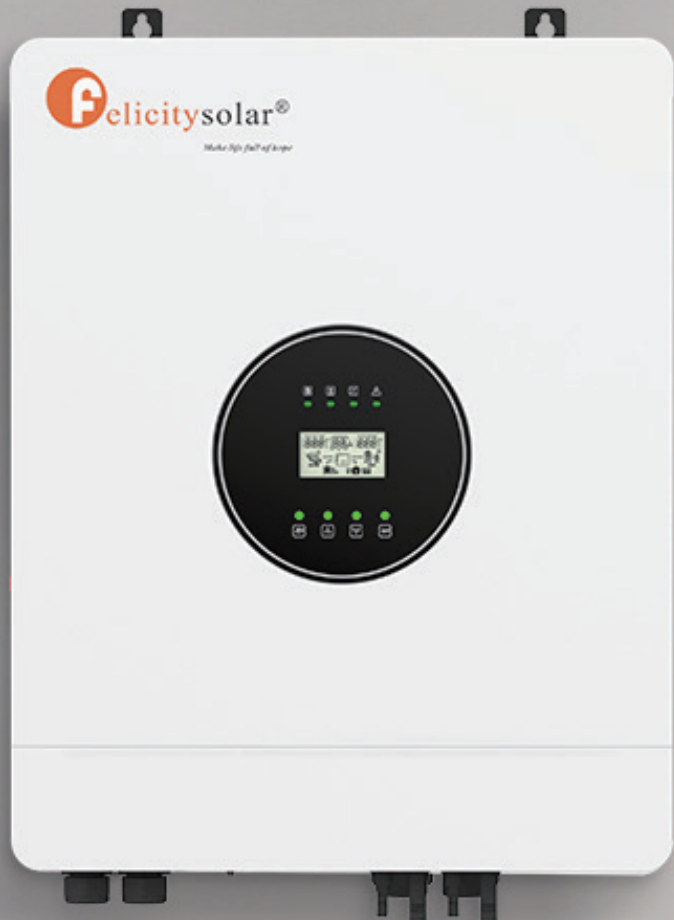
• According to local grid-connected standards

Off grid hybrid inverter

IVEM series

Upgrade system, Stronger protection

48V



CHARGING
PROTECTION



SUPPORT A
VARIETY OF BATTERIES



PARALLEL
MACHINE



WORKING
WITHOYUT BATTERY



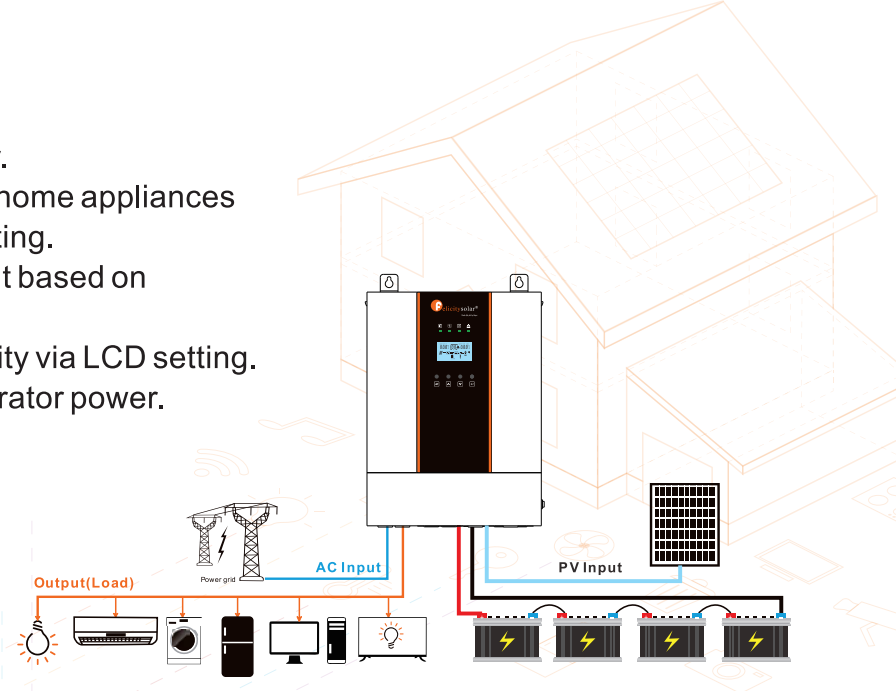
LOW NOISE



MAX PV VOLTAGE

Product Advantages

- Pure sine wave inverter.
- Built-in MPPT solar charge controller.
- Configurable input voltage range for home appliances and personal computers via LCD setting.
- Configurable battery charging current based on applications via LCD setting.
- Configurable AC/Solar Charger priority via LCD setting.
- Compatible to mains voltage or generator power.
- Auto restart while AC is recovering.
- Inverter running without battery.
- Lithium battery activation function.
- Cold start function.



PRODUCT PARAMETERS

Model	IVEM5048	IVEM8048
Model Rated Output Power(VA)	5000VA	8000VA
Rated Output Power(W)	5000W	8000W
Nominal DC Input Voltage	48V	48V
Nominal Input Voltage	230Vac	
Max AC Input Voltage	280Vac	
Nominal Input Frequency	50Hz / 60Hz (Auto detection)	
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)	
Pass Through Without Battery	Yes	
Utility Charge Mode Specifications		
Input Voltage Range	90-280Vac	
Over Charge Protection	Yes	
Solar Charging & Utility Charging		
Max. PV Open Circuit Voltage	500V	
PV Voltage Working Range	120V-500V	
Max. Input Power	6000W	8000W(5000W for single PV)
Max. Solar Charging Current	100A	150A
Max. Charging Current(PV+Grid)	100A	150A
Max. Input Current	20A	40A
Min. Startup Voltage	125V	100A
Inverter Mode Specifications		
Output Voltage Waveform	Pure sine wave	As same as input waveform
Nominal Output Voltage	230Vac±5%	Dependent on battery type
Nominal Output Frequency (Hz)	50±0.3Hz/60Hz±0.3Hz (Adjustable)	
Parallel capability	Yes, up to 12 units	
Peak Efficiency	93%	
Over-Load Protection (SMPs load)	5s@≥150% load; 10s@105%-150% load	
Surge Rating	2* rated power for 5s	
Capable of Starting Electric	Yes	
Output Short Circuit Protection	Yes	
General Specifications		
Operating Temperature	0°C -55°C	
Range Storage Temperature	-15°C-60°C	
Net Weight(KG)	11.2KG	23.7KG
Product Size (D*W*H)	415x320x129mm	620*464*141mm
Package Dimension (D*W*H)	514x419x222mm	712*582*259mm

HYBRID SOLAR INVERTER

IVGM-HT Series

FEATURES

- Support Wi-Fi for mobile monitoring
- Max. charging/discharging current of 25A
- AC couple to retrofit existing solar system
- Support storing energy from diesel generator
- Power supply can be switched automatically and switching time within 20ms
- Support three phase imbalance



PRODUCT PARAMETERS

Model	IVGM100600-HT
Battery Input Data	
Battery Voltage Range	180V~580V
Max. charging and discharging current	25A
Max. charging and discharging power	10000W
Battery type	Li-Ion/Lead-acid
DC Input Data (PV side)	
Max. recommended PV power	13000W
Max. PV voltage	900V
Start voltage	160V
PV voltage range	160V~900V
MPPT voltage range	200V~850V
MPPT Voltage Range for Full Load	450V~850V
Nominal voltage	720V
Max. input current	15A/15A
Max. shorted current	18A/18A
Number of MPP trackers/ strings per MPP tracker	2/1
Grid Data	
Nominal Input Voltage	230Vac/400Vac
Input Voltage Range	184V~264.5V per phase*
Nominal grid frequency	50/60Hz*
Max. input current	30Aper phase
Max. Charge Current	25A
Max. AC output power	10000W
AC Output Rated Current	14.5A per phase
Max. output current	18A per phase
Max. Continuous AC Passthrough	30A per phase
Power factor	>0.99
Displacement power factor	0.8leading···0.8lagging
THDI	<3%
AC Output Data(Back Up)	
Rated output power	10000VA/10000W
Max. Output current	30A per phase
Rated AC output voltage	230Vac per phase
Rated AC output frequency	50/60Hz
Efficiency	
Max. efficiency	97.6%
Euro efficiency	97.6%
MPPT efficiency	99.9%
Protection	
Output over current protection	Integrated
Output over power protection	Integrated
Output shorted protection	Integrated
Anti-islanding protection	Integrated
GFCI Protection	Integrated
Insulation Resistor Detection	Integrated
General Data	
Operating temperature range	-25°C-60°C, > 45°C Derating
Protection degree	Ip65
Relative humidity	100%
Cooling concept	Nature
Altitude	2000m
Communication	RS232/RS485
BMS Communication	CAN/RS485
Monitor module	Wi-Fi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty	10 years
Grid Regulation	VDE-AR-N 4105/99/1; EN50549-1; CEI 0-21; AS 4777.2; NRS 097-2-1;
Safety Regulation	IEC 62109-1/2, IEC 62040-1
EMC	EN61000-6-1, EN61000-6-3
Net Weight	36.2KG
Gross Weight	41.5KG
Product Dimension	533*431*213mm
Package Dimension	635*533*315mm

LiFePO4 BATTERY SYSTEM

HVC Series



PRODUCT PARAMETERS

Datasheet	HVC 5.1	HVC 10.2	HVC 15.4	HVC 20.5	HVC 25.6
Battery Module	HVC-BMU (5.12kwh,102.4V,49kg)				
Number of Modules	1	2	3	4	5
Total Energy	5.12KWh	10.24KWh	15.36KWh	20.48KWh	25.6KWh
Usable Energy (90%DOD)	4.6KWh	9.2KWh	13.8KWh	18.4KWh	23KWh
Nominal Voltage	102.4V	204.8V	307.2V	409.6V	512V
MAX. Charge Voltage	115.2V	230.4V	345.6V	460.8V	576V
MIN. Discharge Voltage	96V	192V	288V	384V	480V
Max. Chargeing Current	25A				
Max. Discharge Current	25A				
Communication	CAN,RS485				
Enclosure Protection Rating	IP65				
Working Temperature Range	-10 ~ 50℃				
Cycle Life	>6,000 Cycle@ 80% DOD / 25℃ / 0.5C, 60%EOL				
Warranty	10 years				
Certification	IEC62619,UL1973,UN38.3,CE				
Dimension [WxDxH]	600*370*410mm	600*370*620mm	600*370*830mm	600*370*1040mm	600*370*1250mm
Weight	60KG	109KG	158KG	207KG	256KG
System Demo					

Product Description

Strong series is designed for residential and commercial Energy Storage applications,with LiFePo4 chemistry battery which has been widely recognized as one of the safest battery technologies.



Front view



side view



LiFePO4 BATTERY SYSTEM

LPBA-OL Series 48100

48V



PRODUCT PARAMETERS

Models	LPBA48100-OL
Total Energy	5.12KWh
Usable Energy	4.6KWh
Capacity	100Ah
Nominal Voltage	51.2V
Voltage Range	48-57.6V
Max Power	2.5KW
Peak Power	5.0KW
Scalable	1~12 in parallel
Communication	CAN,RS485
Enclosure Protection Rating	Ip65
Working Temperature Range	-10~50°C
Cycle Life	6,000 Cycle@ 80% DOD/ 25°C I 0.5C, 60%EOL
Warranty	10 years
Certification	IEC62619,UL1973,UN38.3,CE
Dimension	650*440*150MM
Weight	48KG

Product Description

Strong series is designed for residential and commercial Energy Storage applications,with LiFePo4 chemistry battery which has been widely recognized as one of the safest battery technologies.



LPBA-OL



LPBA-OL

Convenient CAN&RS485 Communication



LiFePO4 BATTERY SYSTEM

EC Series



48V

PRODUCT PARAMETERS

Models	EC 5000	EC 10000
Total Energy	5.12KWh	10.24KWh
Usable Energy (90%DOD)	4.6KWh	9.2KWh
Capacity	100Ah	200Ah
Nominal Voltage	51.2V	51.2V
Voltage Range	48-57.6V	48-57.6V
Max Power	2.5KW	5.0KW
Peak Power(for 10 sec.)	5.0KW	10.0KW
Scalable	1~12 in parallel	
Communication	CAN,RS485	
Enclosure Protection Rating	IP65	
Working Temperature Range	-10 ~ 50 °C	
Cycle Life	>6,000 Cycle@ 80% DOD / 25°C / 0.5C, 60%EOL	
Warranty	10 years	
Certification	IEC62619,UL1973,UN38.3,CE	
Dimension [W x D x H]	730*400*195mm	950*540*195mm
Weight	43KG	86KG

Product Description

Strong series is designed for residential and commercial Energy Storage applications,with LiFePo4 chemistry battery which has been widely recognized as one of the safest battery technologies.



Front view



side view



LiFePO4 BATTERY SYSTEM

LPBA Series 48200

48V



PRODUCT PARAMETERS

Model	LPBA48200
Usable Capacity	10KWH
Nominal Voltage	51.2
Voltage Range	48-57.6
Recommend Charge Cut-off Voltage	57.6
Recommend Discharge Cut-off Voltage	48
MAX. Charge & Discharge Current	120A @10S
Recommend Charge&Discharge Current	≤80A
MAX. Output Power	6000W
Recommend Output Power	4000W
DOD	≥95%
Modules Connection	1~12 in parallel
Communication	CAN&RS485
Ingress Protection	IP21
Cycle Life	≥6000@25°C, 80%DOD
Working Temperature Range	Discharge:-20°C to +60°C, Charge:+0°C to +55°C
Net Weight(KG)	70.5KG
Gross Weight(KG)	91KG
Product Dimension(MM)	755x600x160MM
Package Dimension(MM)	855x700x340MM

Product Description

Strong series is designed for residential and commercial Energy Storage applications,with LiFePo4 chemistry battery which has been widely recognized as one of the safest battery technologies.

Note :
One group of LPBA48V can be stacked up to 2 layers, and up to 12 in parallel connection.



Convenient

CAN&RS485 Communication



LiFePO4 BATTERY SYSTEM

LPBA Series 48500

48V



PRODUCT PARAMETERS

Model	LPBA48500
Capacity	25kWh
Battery Type	LiFePO4
Nominal Voltage	51.2V
Operating Voltage	48-57.6V
Recommend Charge/Discharge Current[1]	≤200A
Recommend Charge/Discharge Power[1]	≤10,000W
Maximum Charge/Discharge Current(15s)	300A
Maximum Charge/Discharge Power(15s)	15,000W
Depth of Discharge(DOD)	≥ 95%
Scalability	Up to 12 units in parallel(300kWh)
Communication	RS485 / CAN
Protection Level	IP21
Cycle Life[2]	≥ 6000 Cycles
Charging Temperature Range	0-55 °C
Discharging Temperature Range	-20-60°C
Display	LCD+LED
Installation	Floor-Mounted
Protection	Built-in smart BMS, Breaker, Fuse
Warranty	7 Years
[1] Recommend charge/discharge current/power is affected by temperature and SOC.	
[2] Test conditions: 0.2C Charging/Discharging @25°C , 80% DOD.	



Front view



side view

Convenient
CAN&RS485 Communication



LiFePO4 BATTERY SYSTEM

FLS48100 Series



PRODUCT PARAMETERS

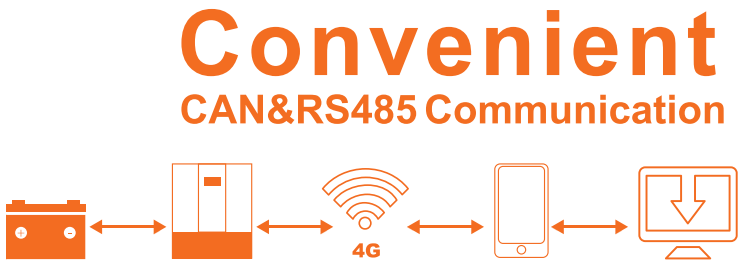
Model	FLS48100							
Number of Battery Modules	1	2	3	4	5	6	7	8
Capacity	5.3kWh	10.6kWh	15.9kWh	21.2kWh	26.6kWh	31.9kWh	37.2kWh	42.5kWh
Battery Type	LiFePO4							
Nominal Voltage	51.2V							
Operating Voltage	44.8-57.6V							
Recommend Charge/Discharge Current[1]	≤60A	≤120A	≤180A	≤240A	≤300A	≤360A	≤400A	≤400A
Recommend Charge/Discharge Power[1]	≤3,000W	≤6,000W	≤9,000W	≤12,000W	≤15,000W	≤18,000W	≤20,000W	≤20,000W
Maximum Charge/Discharge Current(15s)	100A	200A	300A	400A	500A	600A	700A	800A
Maximum Charge/Discharge Power(15s)	5,000W	10,00W	15,000W	20,000W	25,000W	≤30,000W	≤35,000W	≤40,000W
Depth of Discharge(DOD)	≥95%							
Scalability	Up to 8 units in parallel(42.5kwh)							
Communication	RS485 / CAN							
Protection Level	IP21							
Cycle Life[2]	≥ 6000 Cycles							
Charging Temperature Range	0-55 °C							
Discharging Temperature Range	-20-55 °C							
Display	LCD+LED							
Installation	Floor-Mounted							
Protection	Built-in smart BMS, Breaker, Fuse							
Warranty	5 Years							
Net Weight	53kg	99kg	145kg	191kg	237kg	283kg	329kg	375kg
Gross Weight	60kg	110kg	160kg	210kg	260kg	310kg	360kg	410kg
Product Dimension	600*450*(180N+120)mm							
Main control outer packaging size	712*562*333mm							
Control outer packaging size	712*562*298mm							
[1] Recommend charge/discharge current/power is affected by temperature and SOC.								
[2] Test conditions: 0.2C Charging/Discharging @25°C , 80% DOD.								



Front view



side view





LiFePO4 BATTERY SYSTEM

LPBF Series 48250-48300

48V



PRODUCT PARAMETERS

Model	LBF48250	LBF48300
Usable Capacity	12.5KWH	15KWH
Nominal Voltage	51.2V	51.2V
Voltage Range	48-57.6	48-57.6
MAX. Charge & Discharge Current	200A@15S	
Recommend Charge & Discharge Current	≤120A	
MAX. Output Power	10000W	
Recommend Output Power	6000W	
DOD	≥95%	
Modules Connection	1~6in parallel	
Communication	CAN&RS485	
Ingress Protection	IP21	
Cycle Life	≥6000@25°C, 80%DOD	
Working Temperature Range	Discharge:-20°C to +65°C, Charge:+0°C to +55°C	
Net Weight(KG)	154KG	
Gross Weight(KG)	177KG	
Product Dimension(MM)	615x350x955MM	
Package Dimension(MM)	718x450x1112MM	

Product Description

Strong series is designed for residential and commercial Energy Storage applications,with LiFePo4 chemistry battery which has been widely recognized as one of the safest battery technologies.



Front view



Side view

Convenient CAN&RS485 Communication



LiFePO4 BATTERY SYSTEM

LPBM Series 48100

48V



PRODUCT PARARAMETERS

Model	LPBM48100
Usable Capacity	5KWH
Nominal Voltage	51.2
Voltage Range	48-57.6
Recommend Charge Cut-off Voltage	57.6
Recommend Discharge Cut-off Voltage	48
MAX. Charge & Discharge Current	100A @30S
Recommend Charge&Discharge Current	≤50A
MAX. Output Power	5000W
Recommend Output Power	2500W
DOD	≥95%
Modules Connection	1~12 in parallel
Communication	CAN&RS485
Ingress Protection	IP21
Cycle Life	≥6000@25°C, 80%DOD
Working Temperature Range	Discharge:-20°C to +60°C, Charge:+0°C to +55°C
Net Weight(KG)	43KG
Gross Weight(KG)	48KG
Product Dimension(MM)	440x574.5x131MM
Package Dimension(MM)	652x562x238MM

Product Description

Strong series is designed for residential and commercial Energy Storage applications,with LiFePo4 chemistry battery which has been widely recognized as one of the safest battery technologies.



LPBM48100

Convenient

CAN&RS485 Communication



EV AC CHARGING PILE

A7-230V/A11-400V



EV AC CHARGING PILE SPECIFICATION

Product parameter

PRODUCT NAME	Atlas AC Charger	Atlas AC Charger
Model	A11-ST Cable	A7-ST Cable
Rated voltage	AC400V (50/60Hz)	AC230V (50/60Hz)
Rated voltage	16A	32A
Rated power	11kW	7kw
Wire	Three phase (3P+N+PE)	Single phase (1P+N+PE)
Ingress Protection	IP65	
Installation Options	Wall mounted	
Colour	White	
Weight	≤5kg	
Dimension (W*D*H)	190mm*110mm*320mm	
Operating temperature	-40°C to 60°C	-40°C to 50C 50C to 60C(16A)
Humidity	5~95% humidity	
Altitude	≤2000m	
Charging Cable Length	3.5m	
Environmental requirements	Meet ROHS2.0 requirements	



EV AC CHARGING

A7-230V/A11-400V

- 1.Compatible with every electricvehicle
- 2.Plug and charge, quick setup and easycontrolvia app
- 3.Designed to work 15 years, 3-year warrantyand extendable to 5 years
- 4.Always connected with Wi-Fi,BluetoothEthernet (optional), remote support andfirmware upgrades

PROJECT CASE

Industrial solar power system is more and more popular as an effective solution to provide continuous power supply to unstable areas in an environmentally friendly way. At present, we have installed power stations in Germany, Poland, the Czech Republic, Austria and many other countries.

