### Guangzhou Felicity Solar Technology Co.,Ltd.

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- R sales@felicitysolar.com
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### **SOLAR ENERGY STORAGE SOLUTIONS**

Make life full of hope, make the world a better place

**Grobal Version** 



Official Website



Facebook



Youtube



Linkedin



Ins



Digital Version of Catalog









About Us Company History



Why Choose Us

Cooperation Advantages

**Product Series** 



Solar Inverter Series

Battery Pack Series

All-in-one System

FSOLAR Smart Energy Management Platform

Key Components



Solar Energy Storage Solutions

User Case: Asia, Africa, and Latin America User Case: Europe, Americas & Australia

User Case: C & I Energy Storage

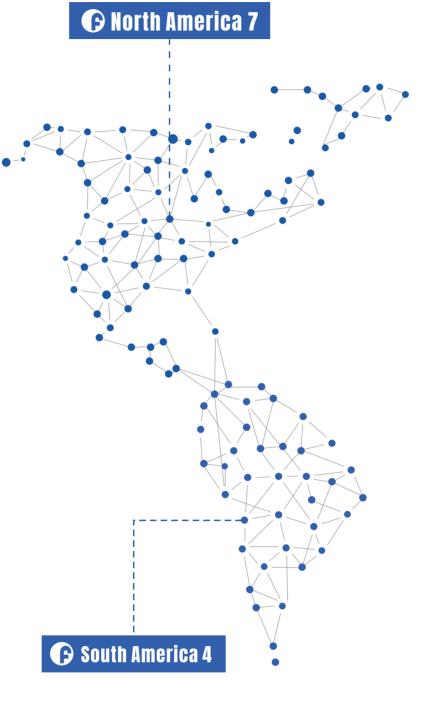


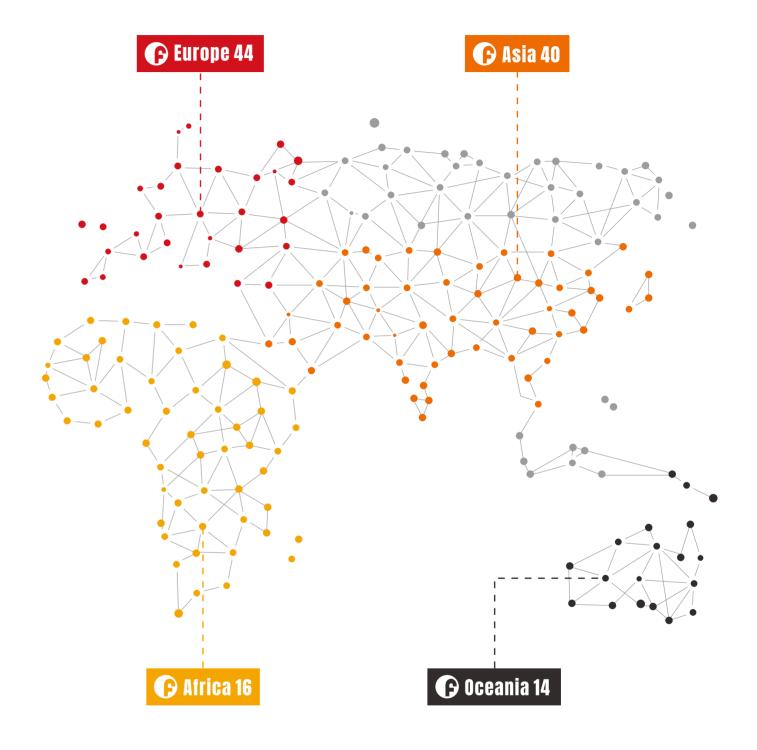
## About Us

Headquartered in Guangzhou, China, Felicitysolar's 85,000+ sqm campus integrates R&D, manufacturing, sale, marketing and logistics operations. We are a trusted provider with 18 years of industry expertise, offering off-grid and hybrid solar energy storage solutions for residential, commercial, and industrial needs. With a R&D team of over 200 professionals, a 3,000 sqm R&D center, and more than 10% of annual investment dedicated to technology development, we had secured over 100 patents in core technologies. Through our 40+ global branches, we connect with users across 150+ countries and areas. delivering a comprehensive product line that includes inverters, battery packs, all-in-one systems and solar controllers. We are committed to bringing hope and a brighter future to the world through solar energy technology, both now and in the future.



### **Broad Business Scope**





70 % Technical Investment 

Overseas Branches 

150 + Countries & R&D Teammate





# SOLAR INVERTER

Series

# Off-grid High-frequency

AC 220V AC 120V

# Off-grid Low-frequency

AC 220V AC 120V

# **Hybrid Solar Inverter**

Low-voltage

High-voltage

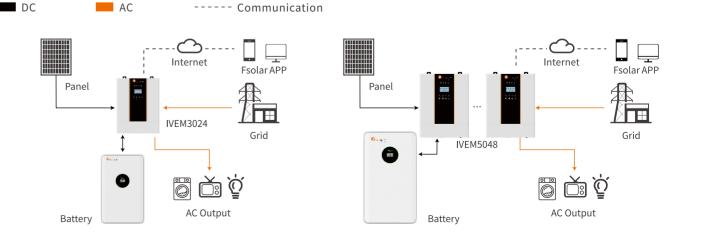
# Micro Inverter

Grid-tied | Single Phase | Low Voltage



Model	IVEM3024	IVEM5048			
the Mark Constitution					
Line Mode Specifications					
Rated Output Power(VA)	3000VA	5000VA			
Rated Output Power(W)	3000W	5000W			
Nominal DC Input Voltage	24V	48V			
Nominal Input Voltage		)Vac			
Max. AC Input Voltage		)Vac			
Nominal Input Frequency		auto Detection)			
Efficiency(Line Mode)	>95% (Rated R Load,	Battery Full Charged)			
Pass Through Without Battery	Υ	es			
Utility Charge Mode Specifications					
Nominal Input Voltage	230	OVac			
Input Voltage Range	90-2	80Vac			
Max. Charge Current	10	00A			
Over Charge Protection	У	es			
Solar Charging & Grid Charging					
Max. PV Open Circuit Voltage	50	00V			
PV Voltage Working Range	120V	-500V			
Max. Input Power	4000W	6000W			
Max. Solar Charging Current	100A	100A			
Max. Charging Current(PV+Grid)	100A	100A			
Max. Input Current	15A	20A			
Min. Startup Voltage	12	125V			
Inverter Mode Specifications					
Output Voltage Waveform	Pure Si	ne Wave			
Nominal Output Voltage	230V	ac+5%			
Nominal Output Frequency(Hz)	50±0.3Hz/60Hz=	-0.3Hz(Adjustable)			
Parallel Capability	No	Yes, Up to 12 Units			
Peak Efficiency	9:	3%			
Over-Load Protection(SMPS load)	5.5s@≥150% Load; 10	0.5s @105% ~150%Load			
Surge Rating	2* Rated F	ower for 5s			
Capable of Starting Electric	Υ	es			
Output Short Circuit Protection	Υ	es			
General Specifications					
Operating Temperature	0°C~	55°C			
Range Storage Temperature	-15°C	~60°C			
Net Weight(KG)	10.8KG	13.2KG			
Product Dimension(MM)	395*295*129MM	415*320*129MM			
Package Dimension(MM)	472*372*202MM	494*399*202MM			
Certification	CE-EMC、IEC 62109-1/2、IEC 63027	CE-EMC、IEC 62109-1/2			

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicity solar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 



### Off-grid High-frequency Solar Inverter

IVEM Series AC-220V

S Built-in WiFi for mobile monitoring (IVEM6048-II; APP is required).

The generator input port of IVEM6048-II that can be converted into a smart output port, allowing users to

customize the output duration. (under stand-alone mode)



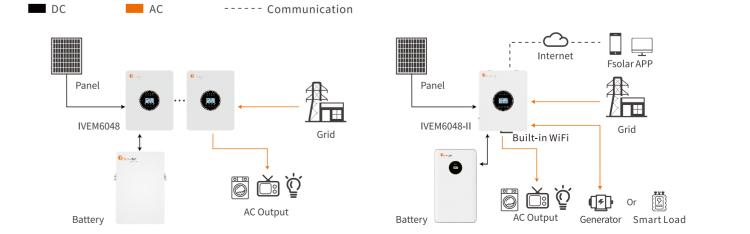
Model	IVEM6048	IVEM6048-II			
Line Mode Specifications					
Rated Output Power(VA)	6000	VA			
Rated Output Power(W)	6000	W			
Nominal DC Input Voltage	48\	l			
Nominal Input Voltage	230Vac				
Max. AC Input Voltage	280V	ac			
Nominal Input Frequency	50Hz / 60Hz (Au	to detection)			
Efficiency(Line Mode)	>95% (Rated R Load, B	attery Full Charged)			
Pass Through Without Battery	Yes	5			
Utility Charge Mode Specifications					
Input Voltage Range	90~280	DVac			
Max. Charge Current	100A	120A			
Over Charge Protection	Yes	5			
Solar Charging & Grid Charging					
Max.PV Open Circuit Voltage	500'	V			
PV Voltage Working Range	90V-45	50V			
Max. Input Power	7000W	7500W			
Max. Solar Charging Current	120	A			
Max. Charging Current(PV+Grid)	120	120A			
Max. Input Current	27A				
Min. Startup Voltage	95\	95V			
Inverter Mode Specifications					
Output Voltage Waveform	Pure Sine	e Wave			
Nominal Output Voltage	230Vac:	±5%			
Nominal Output Frequency(Hz)	50±0.3Hz/60Hz±0	.3Hz(Adjustable)			
Parallel Capability	Yes, Up to 2	12 Units			
Peak Efficiency	93%	6			
Over-Load Protection(SMPS load)	5s@≥150% load; 10s @105% ~150% load	Load>200%,200ms / Load >150%,5.5s Load >120%,7.5s / Load >105% 10.5s			
Surge Rating	2* Rated Pov	wer for 5s			
Capable of Starting Electric	Yes	5			
Output Short Circuit Protection	Yes	5			
<b>General Specifications</b>					
Operating Temperature	-10°C~5	50°C			
Range Storage Temperature		-10 C~50 C -15°C~60°C			
Net Weight(KG)	11.5KG	12.5KG			
Product Dimension(MM)	420*335*				
Package Dimension(MM)	512*417*2	216MM			
	322 127 223000				

<sup>\*</sup>Refer to Felicitysolar's Warranty Policy for applicable conditions.

Certification

IVEM6048-II

**IVEM6048** 



CE-EMC、IEC 62109-1/2、IEC 63027



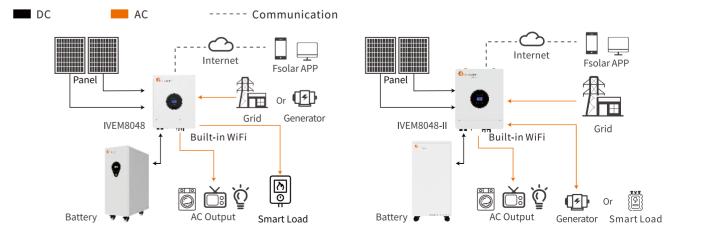
Model	IVEM8048	IVEM8048-II			
Line Mode Specifications					
Rated Output Power(VA)	80	00VA			
Rated Output Power(W)		000W			
Nominal DC Input Voltage		48V			
Nominal Input Voltage		OVac			
Max. AC Input Voltage		0Vac			
Nominal Input Frequency	50Hz/60Hz(	Auto Detection)			
Efficiency(Line Mode)		l, Battery Full Charged)			
Pass Through Without Battery		Yes			
Utility Charge Mode Specifications					
Input Voltage Range	23	:0Vac			
Over Charge Protection	90-2	280Vac			
Max. Charge Current	1	50A			
Over Charge Protection	,	Yes			
Solar Charging & Grid Charging					
Max.PV Open Circuit Voltage	5	00V			
PV Voltage Working Range	90\	/-450V			
Max. Input Power	10000W(5000	)W for single PV)			
Max. Solar Charging Current	1	50A			
Max. Charging Current(PV+Grid)	1	50A			
Max. Input Current	20A X 2	(MAX 40A)			
Min. Startup Voltage	1	00V			
Number of MPP Trackers / Strings Per MPP Tracker	:	2/1			
Inverter Mode Specifications					
Output Voltage Waveform	Pure s	ine wave			
Nominal Output Voltage	230\	/ac+5%			
Nominal Output Frequency(Hz)	50±0.3Hz/60Hz	±0.3Hz(Adjustable)			
Parallel Capability	Yes,up	to 6 units			
Peak Efficiency	94	1.5%			
Over-Load Protection(SMPS load)	5s@≥150% load; 1	0s @105% ~150% load			
Surge Rating	2* rated power for 5s				
Capable of Starting Electric	Yes				
Output Short Circuit Protection	Yes				
General Specifications					
Operating Temperature	-10°	C~50°C			
Range Storage Temperature	-15°C~60°C				
Net Weight(KG)	23.7KG				
Gross Weight(KG)	27.4KG				
- 1 1 (000)	00714041414				

 ${}^\star Refer to \, Felicity solar's \, Warranty \, Policy \, for \, applicable \, conditions.$ 

Product Dimension(MM)

Package Dimension(MM)

Certification



607\*464\*141MM 712\*582\*259MM

CE-EMC、IEC 62109-1/2、IEC 63027

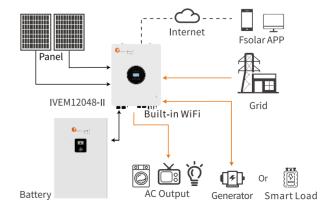


Model	IVEM12048-II

Line Mode Specifications		
Rated Output Power(VA)	12000VA	
Rated Output Power(W)	12000W	
Nominal DC Input Voltage	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	230Vac	
Over Charge Protection	90-280Vac	
Max. Charge Current	240A	
Charge Current Regulation	10-240A (Adjustable Unit is 1A)	
Over Charge Protection	Yes	
Solar Charging & Grid Charging		
Max.PV Open Circuit Voltage	500V	
PV Voltage Working Range	90V-450V	
Max. Input Power	15000W(7500W for Single PV)	
Max. Solar Charging Current	240A	
Max. Charging Current(PV+Grid)	240A	
Max. Input Current	27A X 2(MAX 54A)	
Min. Startup Voltage	100V	
Inverter Mode Specifications		
Output Voltage Waveform	Pure sine wave	
Nominal Output Voltage	230Vac+5%	
Nominal Output Frequency(Hz)	$50\pm0.3$ Hz/ $60$ Hz $\pm0.3$ Hz(Adjustable)	
Parallel Capability	Yes,up to 6 units	
Peak Efficiency	94.5%	
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	-10°C~50°C	
Range Storage Temperature	-15°C~60°C	
Net Weight(KG)	26.8KG	
Product Dimension(MM)	634*476*141MM	
Package Dimension(MM)	726*594*258MM	

<sup>\*</sup>Refer to Felicitysolar's Warranty Policy for applicable conditions.

DC AC ----- Communication



### Off-grid High-frequency Solar Inverter

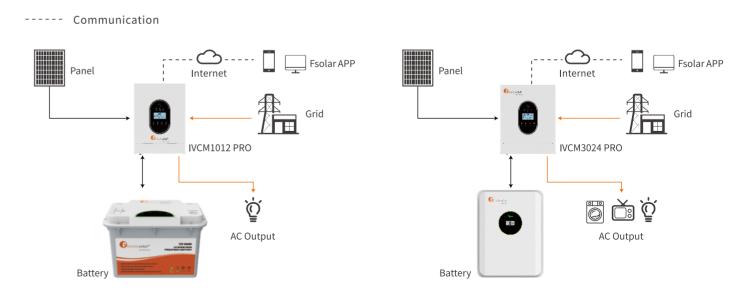
IVCM Series AC-220V



Model	IVCM1012 PRO	IVCM2024 PRO	IVCM3024 PRO	
Line Mode Specifications				
Rated Output Power	1000VA/1000W	2000VA/2000W	3000VA/3000W	
Instant Output Power (Turbo Mode)	3000W	4000W	4500W	
Nominal DC Input Voltage	12V	24V	24V	
Input Voltage Wave form		Sinusoidal (Utility or Generator)		
Nominal Input Voltage		230Vac		
Nominal Input Frequency		50Hz/60Hz(Auto Detection)		
Max. Bypass Overload Current	10A	15A	30A	
Max. Inverter/Rectifier Current	5A/1000W	10A/2000W	15A/3000W	
Utility Charge Mode Specifications				
Nominal Input Voltage		230Vac		
Input Voltage Range		90-280Vac		
Nominal Output Voltage		Dependent on Battery Type		
Max. Charge Current	20A 20A		30A	
Charge Current Requiation	10-20A (Adj 10A)	20-30A (Adj 10A)	20-30A (Adj 10A)	
Over Charge Protection	Yes			
Solar Charging & Grid Charging				
Max. PV Open Circuit Voltage	105V	145V	145V	
Operating Voltage Range	15-90V	30-120V	30-120V	
Max. Input Power	800W	1600W	1600W	
Max. Solar Charging Current		60A		
Max. Charging Current(PV+Grid)	80A	80A	90A	
Max. Input Current		35A		
General Specifications				
Operating Temperature		-10°C~55°C		
Range Storage Temperature	-15°C~60°C			
Net Weight(KG)	5.5KG	6.5KG	6.5KG	
Product Size (D*W*H)	340x248x107MM	340x248x107MM	340x290x124MM	
Package Dimension (D*W*H)	422x330x181MM	422x330x181MM	422x372x198MM	

<sup>\*</sup>Refer to Felicitysolar's Warranty Policy for applicable conditions.

AC

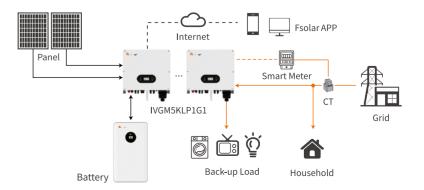




Model	IVGM5KLP1G1
2.00	
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	100A/100A
Max. charging and discharging power	5000W
Battery type	Li-lon/Lead-acid
DC Input Data(PV side)	
Max. Recommended PV Power	6500W (3500W for Single PV)
Max. PV Voltage	550V
Start Oltage	130V
PV Voltage Range	90V-550V
MPPT Voltage Range	100V-500V
MPPT Voltage Range for Full Load	220V-500V
Nominal Voltage	360V
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
Nominal Grid Frequency	50/60Hz
Max. Input Current	40A
Max. Charge Current	100A
Max. AC Output Power	5000W
AC Output Rated Current	21.7A
Max. Output Current	25A
Max. Continuous AC Passthrough	30A
Power Factor	>0.99
Displacement Power Factor	0.8(Leading) to 0.8(Lagging)
THDI	<3%
AC Output Data(Back Up)	
Rated Output Power	5000VA/5000W
Max. Output Current	30A
Rated AC Output Voltage	230Vac
Rated AC Output Frequency	50/60Hz
General Data	30,00112
Operating Temperature Range	-25°C~60°C,>45°C Derating
Protection Degree	IP65
Cooling Concept	
	Nature RS232/RS485
Communication	CAN/RS485
BMS Communication	
Monitor Module	WiFi/GPRS
Display  Installation Style	LCD+LED
Installation Style	Wall-mounted
Warranty Crid Paralletian	10 Years  CELO 21, COD VIDE 4105, EN EGE40 1, NIDE 007, 2.1, C10/11, NITE 8 LINE 217001 8 LINE 217002, DODTADIA Nº 140 8 5
Grid Regulation	CEI 0-21、G99、VDE 4105、EN 50549-1、NRS 097-2-1、C10/11、NTS & UNE217001 & UNE217002、PORTARIA N° 140 & 5
Safety Regulation	IEC 62109-1/-2
EMC	IEC/EN 61000-6-1/2/3/4、EN/IEC 61000-3-11/12
Net Weight (KG)	32.4KG
Gross Weight(KG)	39.1KG
Product Dimension(MM)	530*493*228MM
Package Dimension(MM)	632*570*315MM

<sup>\*</sup>Refer to Felicitysolar's Warranty Policy for applicable conditions.





### **Hybrid Solar Inverter**

IVGM Series Low-voltage | Split Phase

# Features Configurable parameters and working mode by LCD touch screen. Supporting WiFi monitoring and Fsolar smart cloud monitoring system. Battery charge and discharge current up to 190A. Coptimize energy use with Time-of-Use, Sell-First, and Zero Export options to maximize savings and efficiency. Prevent grid overload with built-in limit function while seamlessly switching between battery and grid supply

within 10ms for uninterrupted power.

configuration capacity.

micro inverter access.

and three-phase.

🕏 IP65 protection level.

😩 4-channel PV, 2-channel MPPT, 1.5 times over

🍪 Programmable generator port, support smart load and

Support parallel operation with single-phase, split phase

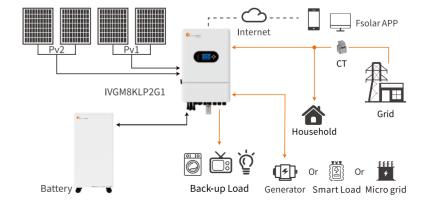
IVGM8KLP2G1

Model	IVGM8KLP2G1		
Battery Input Data			
Battery Voltage Range	40V~60V		
Max. Charging and Discharging Current	190A/190A		
Max. Charging and Discharging Power	8000W		
Battery Type	Li-lon /Lead-acid		
DC Input Data(PV side)			
Max. Recommended PV Power	12000W		
Max. PV Voltage	500V		
Start Voltage	100V		
PV Voltage Range	90V-550V		
MPPT Voltage Range	120V-425V		
MPPT Voltage Range for Full Load	230V-425V		
Nominal Voltage	380V		
pv Input Current	26A+26A		
Max. Shorted Current	44A+44A		
Number of MPP Trackers / Strings Per MPP Tracker	2/2		
Grid Data			
Nominal Input Voltage	120/240Vac (Split Phase), 208Vac (2/3 Phase)		
Nominal Grid Frequency	50/60Hz		
Max. AC Output Power	8800W		
AC Output Rated Current	33.3A		
Max. Output Current	36.7A		
Max. Continuous AC Passthrough	50A		
AC Output Data(Back Up)			
Rated Output Power	8000W		
Max. Output Current	40A		
Rated AC Output Voltage	120/240Vac (Split Phase), 208Vac (2/3 Phase)		
Rated AC Output Frequency	50/60Hz		
General Data			
Operating Temperature Range	-25°C~60°C,>45°C Derating		
Protection Degree	IP65		
Cooling Concept	Smart Cooling Smart Cooling		
Communication	RS232/RS485		
BMS Communication	CAN/RS485		
Monitor Module	WiFi/GPRS		
Display	LCD+LED		
Installation Style	Wall-mounted		
Warranty	10 years		
Grid Regulation(In progress)	VDE 4105、CEI 0-21、G99、NRS 097-2-1、EN 50549-1、EN 50549-10、NC RFG(Poland)、EN 50549-1/-10+Netherlands、PPDS、NTS & UNE217001 & UNE217002、UL1741		
Safety Regulation	IEC 62109-1/-2		
EMC	IEC/EN 61000-6-1/2/3/4、EN/IEC 61000-3-11/12		
Net Weight(KG)	33.5KG		
Gross Weight(KG)	40.5KG		
Product Dimension(MM)	430*654*243MM		
Package Dimension(MM)	787*547*358MM		

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 

DC AC





### **Hybrid Solar Inverter**

IVGM Series Low-voltage | Three Phase

### **Features**

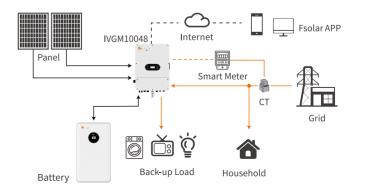
- Support WiFi for mobile monitoring.
- Max. charging / discharging current of 200A.
- AC couple to retrofit existing solar system.
- Support storing energy from diesel generator.
- Switch power supply within 20ms.
- P65 protection level.

IVGM10048

Model	IVGM10048
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	200A/200A
Max. charging and discharging power	10000W
Battery type	Li-lon / Lead-acid
DC Input Data(PV side)	
Max. Recommended PV Power	13000W (6500W for Single PV)
Max. PV Voltage	900V
Start Oltage	180V
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	L1/L2/L3/N/PE, 230/400Vac
Nominal Grid Frequency	50/60Hz
Max. Input Current	30A
Max. Charge Current	200A
Max. AC Output Power	10000W
AC Output Rated Current	14.5A
Max. Output Current	18A
Max. Continuous AC Passthrough	30A
Power Factor	>0.99
Displacement Power Factor	0.8(Leading) to 0.8(Lagging)
THDI	<3%
AC Output Data(Back Up)	7070
Rated Output Power	10000VA/10000W
Max. Output Current	30A
Rated AC Output Voltage	L1/L2/L3/N/PE, 230/400Vac
Rated AC Output Frequency	50/60Hz
General Data	34,000
Operating Temperature Range	-25°C~60°C,>45°C Derating
Protection Degree	IP65
Cooling Concept	Smart cooling
Communication	RS232/RS485
BMS Communication	CAN/RS485
Monitor Module	WiFi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty	10 Years
Grid Regulation	VDE-AR-N 4105
Safety Regulation	IEC 62109-1/-2
Net Weight (KG)	38.9KG
Gross Weight(KG)	36.9NG 47.1KG
Product Dimension(MM)	47.1NG 655*475*266MM
Package Dimension(MM)	792*597*351MM
i acrage Dimension(MM)	1AT 2A132TWM

<sup>\*</sup>Refer to Felicitysolar's Warranty Policy for applicable conditions.





### **Hybrid Solar Inverter**

IVGM Series High-voltage | Three Phase

# Features ② Supports WiFi monitoring and Fsolar smart cloud monitoring system. ③ Seamless power supply switching within 10ms. ③ Configurable parameters and working mode via LCD touch screen. ④ Programmable supply priority for battery or grid. ④ Programmable multiple operation modes: On grid, off grid and UPS. ⑤ 8-channel PV,4-channel MPPT, 1.3 times over configuration capacity. ② 2 independent battery inputs, effectively reducing inter-cluster circulation. ② Wide battery voltage input and high battery charge

and discharge current up to 50A.

Auto restart while AC is recovering.

and micro inverter access.

ኬ) 12pcs in parallel maximum.

IP65 protection level.

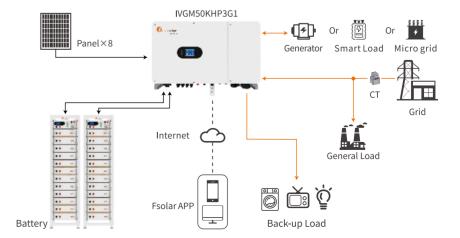
Programmable generator port, support smart load

IVGM50KHP3G1

IVGM50KHP3G1		
LFP (LiFePO4)		
160~800Vdc		
50+50(A)		
50+50(A)		
2		
65KW(16KW for Single PV)		
1000Vdc		
150Vdc		
250Vdc		
600Vdc		
200~850Vdc		
450~850Vdc		
36+36+36(A)		
55+55+55(A)		
4		
2		
50 KW		
55 KW		
72.5 A		
79.7 A		
220/380,230/400 Vac (-20%~+15%)		
3L+N+PE		
50 /60 Hz (45~55Hz/55~65Hz)		
<3% (At Rated Power)		
0.8(Leading) to 0.8(Lagging)		
NTS & UNE217001 & UNE217002、CEI 0-21、NRS 097-2-1、NC RFG(Poland)、		
VDE 4105、G99、EN 50549-1、EN 50549-1+Netherlands		
EN 62477-1、IEC 62109-1/-2		
IEC/EN 61000-6-2/4、EN/IEC 61000-3-11/12		
85.6KG		
98.4KG		
940*582*340MM		
1110*770*463MM		
IP65		
-25 to 60°C (> 50°C Derating)		
Smart Cooling		
RS485,CAN		
WiFi/GPRS		
Wall-mounted		
10 Years		

DC A

----- Communication





# SOLAR BATTERY Series

# LifeP04 Battery Pack

Low-voltage

High-voltage

# Lead-acid Battery

**GEL** Battery

**OPzV Battery** 

### **LiFePO4 Battery Pack**

Low-voltage FLA Series

FLA12100



FLA12200

FLA12300

Model	FLA12100 FLA12200		FLA12300		
Battery Type	LiFePO4				
Nominal Energy	1.28kWh	3.75kWh			
Nominal Voltage	12.8V	12.8V	12.8V		
Operating Voltage	11.2V-14.4V	11.2V-14.4V	11.2V-14.4V		
Recommend Charge/Discharge Current[1]	≤100A	≤100A	≤100A		
Recommend Charge/Discharge Power[1]	≤1,250W	≤1,500W	≤1,875W		
Maximum Charge/Discharge Current(15s)	150A	200A	200A		
Maximum Charge/Discharge Power(15s)	1,875W	2,500W	2,500W		
Scalability	Max. 16 pcs in Parallel(20.48kWh)	Max. 16 pcs in Parallel(40.96kWh)	Max. 16 pcs in Parallel(60kWh)		
Depth of Discharge(DOD)		≥95%			
Communication		RS485/CAN			
Protection Degree	IP21				
Cycle Life[2]	≥6,000 Cycles				
Charging Temperature Range	0°C~+55°C				
Discharging Temperature Range	-20°C~+55°C				
Display Type	LED				
Installation	Floor-Mounted				
Protection	Built-in smart BMS, Fuse				
Warranty Period	5 Years				
Certification	UN38.3				
Product Weight	10KG 15KG		26KG		
Package Weight	12KG	18KG	29KG		
Product Dimension	295X201X199MM	328X248X199MM	379X241X286MM		
Package Dimension	357X263X261MM 391X310X257MM		443X305X344MM		

<sup>[1]</sup> Max. Continuous Charge/Discharge Current is Affected by Temperature and SOC.



Longer Lasting LiFePO4 Battery



Real-time Status via LCD Screen & LED



Support 16 Pcs in Parallel



Wide Inverter Compatibility



<sup>[2]</sup> Test Conditions: 0.2C Charging/Discharging @25°C,80% DOD

 $<sup>{}^\</sup>star Product \, specifications \, may \, vary \, during \, continuous \, improvements. \, Please \, contact \, us \, for \, latest \, details.$ 

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 



Model	FLA24100	FLA24200	FLA24250	FLA24300	FLA24500
Battery Type	LiFePO4				
Nominal Energy	2.56kWh	5kWh	6.4kWh	7.5kWh	12.5kWh
Nominal Voltage	25.6V	25.6V	25.6V	25.6V	25.6V
Operating Voltage	22.4-28.8V	22.4-28.8V	22.4-28.8V	22.4-28.8V	22.4-28.8V
Recommend Charge/Discharge Current[1]	≤100A	≤120A	≤150A	≤150A	≤200A
Recommend Charge/Discharge Power[1]	≤2,500W	≤3,000W	≤3,750W	≤3,750W	≤5,000W
Maximum Charge/Discharge Current(15s)	150A	150A	200A	200A	300A
Maximum Charge/Discharge Power(15s)	3,750W	3,750W	5,000W	5,000W	7,500W
Scalability	Max. 15 pcs in Parallel(38.4kWh)	Max. 15 pcs in Parallel(75kWh)	Max. 15 pcs in Parallel(96kWh)	Max. 15 pcs in Parallel(112.5kWh)	Max. 15 pcs in Parallel(187.5kWh)
Depth of Discharge(DOD)			≥95%		
Communication			RS485/CAN		
Protection Degree			IP21		
Cycle Life[2]			≥6,000 Cycles		
Charging Temperature Range			0°C~+55°C		
Discharging Temperature Range			-20°C~+55 °C		
Display type			LCD+LED		
Installation		Wall	-Mounted / Floor-Mo	unted	
Protection		Built	-in Smart BMS, Breake	r, Fuse	
Warranty Period	7 Years				
Certification	UN38.3	UN38.3	UN38.3	UN38.3、CE-EMC、 IEC 62619	UN38.3
Product Weight	27KG	39KG	52.5KG	71KG	93KG
Package Weight	30KG	44KG	57KG	90KG	113KG
Product Dimension	454X380X154MM	482X433X194MM	527X400X280MM	700X430X253MM	783X405X274MM
Package Dimension	543X472X232MM	600X555X282MM	646X522X358MM	780X550X427MM	900X525X450MM
[1] May Continuous Charge (Discharge Current is Affected by Tomporative and SOC					

<sup>[1]</sup> Max. Continuous Charge/Discharge Current is Affected by Temperature and SOC.



Real-time status via LCD Display



Built-in WiFi/Bluetooth for Remote Monitoring



Support Wall Mounted Installation



Wide Inverter Compatibility





<sup>[2]</sup> Test conditions: 0.2C Charging/Discharging @25°C,80% DOD

 $<sup>{}^\</sup>star Product \, specifications \, may \, vary \, during \, continuous \, improvements. \, Please \, contact \, us \, for \, latest \, details.$ 

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 



5.12kWh		LiFePO4						
5.12kWh		LiFePO4						
5.12kWh		211 01 01	LiFePO4					
	10kWh	10.5kWh	11.8kWh	12.5kWh				
51.2V	51.2V	51.2V	51.2V	51.2V				
44.8-57.6V	44.8-57.6V	44.8-57.6V	44.8-57.6V	44.8-57.6V				
≤100A	≤120A	≤150A	≤150A	≤150A				
≤5,000W	≤6,000W	≤7,500W	≤7,500W	≤7,500W				
150A	150A	200A	200A	200A				
7,500W	7,500W	10,000W	10,000W	10,000W				
Max. 15 pcs in Parallel(76.8kWh)	Max. 15 pcs in Parallel(150kWh)	Max. 15 pcs in Parallel(157.4kWh)	Max. 15 pcs in Parallel(176.6kWh)	Max. 15 pcs in Parallel(187kWh)				
		≥95%						
		RS485/CAN						
		IP21						
	≥ 6000 Cycles (2	5°C±2°C,0.5C/0.5C,90	%DOD,70%EOL)					
		0°C~+55°C						
		-20°C~+55°C						
		LCD+LED						
	Wall	-Mounted / Floor-Mou	nted					
	Built	-in smart BMS, Breaker,	Fuse					
		7 Years						
UN38.3、CE-EMC、 IEC 62619	UN38.3、CE-EMC、 IEC 62619、CB	UN38.3、CE-EMC、 IEC 62619	UN38.3、CB	UN38.3、CE-EMC、 IEC 62619				
48KG	68KG	92KG	92KG	97KG				
55KG	88KG	115.6KG	115.6KG	115KG				
663X400X178MM	735X433X188MM	783X450X274MM	783X450X274MM	783X450X274MM				
782X522X262MM	849X550X362MM	900X570X450MM	900X570X450MM	900X570X450MM				
	44.8-57.6V  ≤100A  ≤5,000W  150A  7,500W  Max. 15 pcs in Parallel(76.8kWh)  UN38.3、CE-EMC、 IEC 62619  48KG  55KG  663X400X178MM  782X522X262MM	44.8-57.6V 44.8-57.6V  ≤100A ≤120A  ≤5,000W ≤6,000W  150A 150A  7,500W 7,500W  Max. 15 pcs in Parallel(150kWh)	44.8-57.6V 44.8-57.6V 44.8-57.6V ≤100A ≤120A ≤150A ≤150A ≤5,000W ≤6,000W ≤7,500W 150A 150A 200A 7,500W 10,000W Max. 15 pcs in Parallel(76.8kWh) in Parallel(150kWh) in Parallel(157.4kWh) ≥95% RS485/CAN IP21 ≥ 6000 Cycles (25°C±2°C,0.5C/0.5C,90 0°C~+55°C LCD+LED Wall-Mounted / Floor-Mou Built-in smart BMS, Breaker, 7 Years  UN38.3、CE-EMC、IEC 62619 IEC 62619、CB IEC 62619 48KG 68KG 92KG 15.6KG 88KG 115.6KG 663X400X178MM 735X433X188MM 783X450X274MM 782X522X262MM 849X550X362MM 900X570X450MM	44.8-57.6V 44.8-57.6V 44.8-57.6V 44.8-57.6V 344.8-57.6V \$				

<sup>[1]</sup> Max. Continuous Charge/Discharge Current is Affected by Temperature and SOC.



Built-in WiFi/Bluetooth for Remote



Support Wall Mounted Installation



Aerosol Fire Extinguishing System





Wide Inverter Compatibility

 $<sup>{}^{\</sup>star}\mathsf{Product}\,\mathsf{specifications}\,\mathsf{may}\,\mathsf{vary}\,\mathsf{during}\,\mathsf{continuous}\,\mathsf{improvements}.\,\mathsf{Please}\,\mathsf{contact}\,\mathsf{us}\,\mathsf{for}\,\mathsf{latest}\,\mathsf{details}.$ 

<sup>\*</sup>Refer to Felicitysolar's Warranty Policy for applicable conditions.



Model	FLA48280	FLA48300		
Battery Type	LiFel	PO4		
Nominal Energy	14.3kWh	15kWh		
Nominal Capacity	280Ah	300Ah		
Nominal Voltage	51.	2V		
Operating Voltage	44.8-5	57.6V		
Recommend Charge/Discharge Current	120	DA .		
Max. Continuous Charge/Discharge Current[1]	150	DA		
Peak Charge/Discharge Current(15s)	200	DA .		
Scalability	Max. 15 pcs in Parallel(215kWh)	Max. 15 pcs in Parallel(225kWh)		
Depth of Discharge(DOD)	≥95	5%		
Display Type	LC	D		
Protection Degree	IP2	21		
Working Tomporature Dange	Charge: 0°C~55°C			
Working Temperature Range	Discharge: -20°C~55°C			
Storge Temperature Range	0°C~+35°C			
Humidity	5%~!	95%		
Altitude	≤ 20	00m		
Communication	RS485	5/CAN		
Cycle Life	≥ 6000 Cycles (25°C±2°C,0.	5C/0.5C,90%DOD,70%EOL)		
Installation	Wall-Mounted /	Floor-Mounted		
Protection	Built-in Smart BM	IS, Breaker, Fuse		
Warranty Period	7 Years			
Certification	UN38.3	UN38.3、CE-EMC、IEC 62619		
Product Weight	135	KG		
Package Weight	160KG			
Product Dimension	480X1100	0X300MM		
Package Dimension	1150X635X498MM			

 $<sup>[1] \, {\</sup>sf Max.} \, {\sf Continuous \, Charge/Discharge \, Current \, is \, {\sf Affected \, by \, Temperature \, and \, SOC.}$ 



Real-time status via LCD Display



Aerosol Fire Extinguishing System



Support 15 Pcs in Parallel



Built-in WiFi/Bluetooth for Remote Monitoring



 $<sup>{}^\</sup>star Product \, specifications \, may \, vary \, during \, continuous \, improvements. \, Please \, contact \, us \, for \, latest \, details.$ 

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 



Model	FLA48500
'	
Battery Type	LiFePO4
Nominal Energy	25kWh
Nominal Voltage	51.2V
Operating Voltage	44.8-57.6V
Recommend Charge/Discharge Current[1]	≤200A
Recommend Charge/Discharge Power[1]	≤10000W
Maximum Charge/Discharge Current(15s)	300A
Maximum Charge/Discharge Power(15s)	15000W
Depth of Discharge(DOD)	≥95%
Scalability	Max.15 pcs in Parallel(375kWh)
Communication	RS485/CAN
Protection Degree	IP21
Cycle Life[2]	≥6,000 Cycles
Charging Temperature Range	0°C-55°C
Discharging Temperature Range	-20°C-60 °C
Display	LCD+LED
Installation Style	Floor-Mounted
Protection	Built-in Smart BMS, Breaker, Fuse
Warranty	7 Years
Certification	UN38.3、CE-EMC、IEC 62619
Product Weight	218KG
Package Weight	248KG
Product Dimension	718X380X990MM
Package Dimension	825X498X1162MM

<sup>[1]</sup> Recommend Charge/Discharge Current/Power is Affected by Temperature and SOC.



Longer Lasting LiFePO4 Battery



Support 15 Pcs in Parallel



Real-time Status via LCD Display



Wide Inverter Compatibility



<sup>[2]</sup> Test Conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

 $<sup>{}^\</sup>star Product \, specifications \, may \, vary \, during \, continuous \, improvements. \, Please \, contact \, us \, for \, latest \, details.$ 

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 



Model		FLS48100SG1							
Battery Type					LiFe	DO4			
Module Nominal	Energy					kWh			
Module Nominal					100				
Module Nominal					51.				
Number of Batte		1	2	3	4	5	6	7	8
System Nominal	•	5.12kWh	10.24kWh	15.36kWh			30.72kWh	35.84kWh	40.96kWh
System Nominal		5.12KWN	10.24KWN	15.36KWN	20.48kWh	25.6kWh	30.72KWN	35.84KWN	40.96KWN
System Operatir	0				51.				
		F0.4	1004	1504	44.8-		2004	2504	4004
	arge/Discharge Current	50A	100A	150A	200A	250A	300A	350A	400A
	Charge/Discharge Current[1]	60A	120A	180A	240A	300A	360A	400A	400A
	charge Current(15S)	100A	200A	300A	400A	500A	600A	700A	800A
Scalability	4				Max. 8 pcs				
Depth of Dischar	rge(DOD)				≥9				
Display Type		Control Module: LCD/Battery Module: LED*4							
Protection Level		IP21							
Working Temper	rature Range	Charge: 0°C~55°C							
Storge Temperat	turo Bango	Discharge: -20°C~55°C 0°C~+35°C							
	ture kange	5%~95%							
Humidity		5%~95% ≤ 2000M							
Altitude		≤ 2000M RS485/CAN							
Communication		R5465/CAIN ≥ 6000 Cycles							
Cycle Life[2]		≥ 6000 Cycles  Wall-Mounted/Floor-Mounted							
Installation					,				
Protection				Bu	ilt-in Smart BN		use		
Warranty Period		10 Years							
Certification				L	N38.3、CE-EI		9、CB		
	Product Weight Approximate					KG			
Control Module	Package Weight Approximate				60	KG			
FLS48100SCG1	Product Dimension				600X450				
	Package Dimension				712X562	X333 MM			
	Product Weight Approximate				46	KG			
Battery Module	Package Weight Approximate				50	KG			
FLS48100SMG1	Product Dimension				600X450	X180 MM			
	Package Dimension	712X562X298 MM							

<sup>[1]</sup> Max. Continuous Charge/Discharge Current is Affected by Temperature and SO









Wide Inverter Compatibility

Aerosol Fire Extinguishing System

Real-time Status via LCD Display & SOC Display

Module Design for Easy Expansion

<sup>[2]</sup> Test Conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

<sup>\*</sup>Product specifications may vary during continuous improvements. Please contact us for latest details.

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 



Model	LPBF24100-M	LPBF24200-M	LPBF24300
Battery Type	LiFePO4	LiFePO4	LiFePO4
Nominal Energy	2.5kWh	5kWh	7.5kWh
Nominal Voltage	25.6V	25.6V	25.6V
Operating Voltage	24-28.8V	24-28.8V	24-28.8V
Recommend Charge/Discharge Current[1]	≤60A	≤80A	≤120A
Recommend Charge/Discharge Power[1]	≤1,500W	≤2,000W	≤3,000W
Maximum Charge/Discharge Current(15s)	100A	120A	200A
Maximum Charge/Discharge Power(15s)	2,500W	3,000W	5,000W
Depth of Discharge(DOD)	≥95%	≥95%	≥95%
Scalability	Max. 6 pcs in Parallel(15kWh)	Max. 6 pcs in Parallel(30kWh)	Max. 6 pcs in Parallel(45kWh)
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Protection Degree	IP21	IP21	IP21
Cycle Life[2]	≥6,000 Cycles	≥6,000 Cycles	≥6,000 Cycles
Charging Temperature Range	0°C-55°C	0°C-55°C	0°C-55°C
Discharging Temperature Range	-20°C-60°C	-20°C-60 °C	-20°C-60°C
Display	LCD+LED	LED	LCD+LED
Installation Style	Wall-Mounted / Floor-Mounted	Wall-Mounted / Floor-Mounted	Wall-Mounted / Floor-Mounted
Protection	Built-in Smart BMS, Fuse	Built-in Smart BMS, Fuse	Built-in Smart BMS, Fuse
Warranty	5 Years	5 Years	5 Years
Certification	UN38.3、CE-EMC、IEC 62619	UN38.3、CE-EMC、IEC 62619	UN38.3
Product Weight	22KG	36.5KG	76KG
Package Weight	26KG	41.5KG	93KG
Product Dimension	420x341x195MM	415x400x213MM	670x540x231MM
Package Dimension	517x433x243MM	537x522x298MM	765x635x400MM

<sup>[1]</sup> Recommend Charge/Discharge Current/Power is Affected by Temperature and SOC.



Longer Lasting LiFePO4 Battery



Support 6 Pcs in Parallel



Wide Inverter Compatibility



Real-time Status via LCD Screen



Support Wall Mounted Installation

<sup>[2]</sup> Test Conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

 $<sup>{}^\</sup>star Product \, specifications \, may \, vary \, during \, continuous \, improvements. \, Please \, contact \, us \, for \, latest \, details.$ 

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 



Model	LPBF48100-M	LPBF48150-P	LPBF48200-H
Battery Type	LiFePO4	LiFePO4	LiFePO4
Nominal Energy	5kWh	7.2kWh	10kWh
Nominal Voltage	51.2V	51.2V	51.2V
Operating Voltage	48-57.6V	48-57.6V	48-57.6V
Recommend Charge/Discharge Current[1]	≤50A	≤60A	≤80A
Recommend Charge/Discharge Power[1]	≤2,500W	≤3,000W	≤4,000W
Maximum Charge/Discharge Current(15s)	100A	120A	120A
Maximum Charge/Discharge Power(15s)	5,000W	6,000W	6,000W
Depth of Discharge(DOD)	≥95%	≥95%	≥95%
Scalability	Max. 6 pcs in Parallel(30kWh)	Max. 6 pcs in Parallel(43.2kWh)	Max. 6 pcs in Parallel(60kWh)
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Protection Degree	IP21	IP21	IP21
Cycle Life[2]	≥6,000 Cycles	≥6,000 Cycles	≥6,000 Cycles
Charging Temperature Range	0°C-55°C	0°C-55°C	0°C-55°C
Discharging Temperature Range	-20°C-60°C	-20°C-60 °C	-20°C-60°C
Display	LCD+LED	LED	LCD+LED
Installation Style	Wall-Mounted / Floor-Mounted	Wall-Mounted / Floor-Mounted	Wall-Mounted / Floor-Mounted
Protection	Built-in Smart BMS, Fuse	Built-in Smart BMS, Fuse	Built-in Smart BMS, Fuse
Warranty	5 Years	5 Years	5 Years
Certification	UN38.3	UN38.3、CE-EMC、IEC 62619	UN38.3、CE-EMC、IEC 62619
Product Weight	40KG	54.5KG	72KG
Package Weight	44kKG	59.5KG	86KG
Product Dimension	507x455x184MM	654x425x203MM	664x468x213MM
Package Dimension	585x537x258MM	752x527x268MM	748x556x358MM

<sup>[1]</sup> Recommend charge/discharge current/power is affected by temperature and SOC.



Longer Lasting LiFePO4 Battery



Support 6 Pcs in Parallel



Wide Inverter Compatibility



Real-time Status via LCD Screen LPBF48100-M & LPBF48200-H



Support Wall Mounted Installation

<sup>[2]</sup> Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

 $<sup>{}^\</sup>star Product \, specifications \, may \, vary \, during \, continuous \, improvements. \, Please \, contact \, us \, for \, latest \, details.$ 

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 

### **LiFePO4 Battery Pack**

Low-voltage LPBF Series



Model	LPBF48250	LPBF48300	LPBF48300-II	LPBF48350	
'					
Battery Type	LiFePO4				
Nominal Energy	12.5kWh	15kWh	15kWh	17.5kWh	
Nominal Voltage		5	1.2V		
Operating Voltage		48-	-57.6V		
Recommend Charge/Discharge Current[1]		€	120A		
Recommend Charge/Discharge Power[1]		≪6	,000W		
Maximum Charge/Discharge Current(15s)		2	00A		
Maximum Charge/Discharge Power(15s)		10,	000W		
Depth of Discharge(DOD)		≽	95%		
Scalability	Max. 6 pcs in Parallel (90kWh)	Max. 6 pcs in Parallel (90kWh)	Max. 6 pcs in Parallel (90kWh)	Max. 6 pcs in Parallel (105kWh)	
Communication		RS48	85/CAN		
Protection Degree		I	P21		
Cycle Life[2]		≥6,00	00 Cycles		
Charging Temperature Range		0°C	:-55 °C		
Discharging Temperature Range		-20°	C-60 °C		
Display	LED	LED	LED	LCD+LED	
Installation Style		Floor-	Mounted		
Protection		Built-in Smart E	BMS, Breaker, Fuse		
Warranty	5 Years				
Certification	UN38.3、CE-EMC、 IEC 62619	UN38.3、CE-EMC、 IEC 62619	UN38.3	UN38.3、CE-EMC、 IEC 62619	
Product Weight	154KG	154KG	155.5KG	162KG	
Package Weight	177KG	177KG	178.5KG	185KG	
Product Dimension	615x350x955MM	615x350x955MM	615x350x955MM	622x350x955MM	
Package Dimension	718x450x1112MM	718x450x1112MM	718x450x1112MM	718x450x1112MM	

<sup>[1]</sup> Recommend charge/discharge current/power is affected by temperature and SOC.







Support 6 Pcs in Parallel



Longer Lasting LiFePO4 Battery



LPBF48250/48300/48350 Wire Ports (LPBF48300-II optimizes port placement compared to the LPBF48300 model.)



LPBF48300-II Wire Ports

<sup>[2]</sup> Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

 $<sup>{}^{\</sup>star}\mathsf{Product}\,\mathsf{specifications}\,\mathsf{may}\,\mathsf{vary}\,\mathsf{during}\,\mathsf{continuous}\,\mathsf{improvements}.\,\mathsf{Please}\,\mathsf{contact}\,\mathsf{us}\,\mathsf{for}\,\mathsf{latest}\,\mathsf{details}.$ 

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 



Model	LPBA48100-OL		
Battery Type	LiFePO4		
Nominal Energy	5.12kWh		
Nominal Capacity	100Ah		
Nominal Voltage	51.2V		
Operating Voltage	44.8-57.6V		
Recommended Charge/Discharge Current	50A		
Max.continuous charge/Discharge current[1]	60A		
Peak Charge/Discharge Current(15s)	100A		
Scalability	Max. 12 pcs in Parallel(61.44kWh)		
Depth of Discharge(DOD)	≥95%		
Display Type	LED		
Protection Degree	IP65		
Working Temperature Range	Charge: 0°C~55°C		
working reinperature kange	Discharge: -20°C~55°C		
Storge Temperature Range	0°C~+35°C		
Humidity	5%~95%		
Altitude	≤ 2000M		
Communication	RS485/CAN		
Cycle Life[2]	≥6,000 Cycles		
Installation	Wall-Mounted / Floor-Mounted		
Protection	Built-in smart BMS, Breaker, Fuse		
Warranty Period	10 Years		
Certification	UN38.3、CE-EMC、IEC 62619、CB		
Product Weight	48.5KG		
Package Weight	64.5KG		
Product Dimension	665X440X175 MM		
Package Dimension	760X540X345 MM		

<sup>[1]</sup> Max. Continuous Charge/Discharge Current is Affected by Temperature and SOC.



IP65 Protection Level



Aerosol Fire Extinguishing System



≥6000 High Cycle Life



Support 12 Pcs in Parallel



<sup>[2]</sup> Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

 $<sup>{}^\</sup>star Product \, specifications \, may \, vary \, during \, continuous \, improvements. \, Please \, contact \, us \, for \, latest \, details.$ 

 $<sup>{}^{\</sup>star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 



Model		FLH48100UG1				
Battery Type			LiFePO4			
Nominal Energy		5.12KWh				
		51.2V				
Nominal Voltage Nominal Capacity			100Ah			
Number of Batter		4(Min)	8	12		
System Nominal I		20.48kWh	40.96kWh	61.44kWh		
System Nominal \	0,	20.48KWII 204.8V	40.96kWII			
System Operating	_			614.4V		
	rge/Discharge Current	192-230.4V	384-460.8V	576-691.2V		
	Charge/Discharge Current[1]		50A			
			100A			
	harge current(15S)		120A			
Depth of Discharg	ge(DOD)		≥ 95%			
Display Type			LED+LCD(Touch)			
IP Rating of Enclo	sure		IP21			
Operating Tempe	rature Range		Charge:0~+55°C			
		Discharge:-20°C~+55°C				
Storge Temperati	ure Range	0°C~+35°C				
Humidity		5%~95%				
Altitude		≤2000M				
Cycle Life[2]			≥ 6000			
Installation			Rack-Mounting			
Protection			Built-in smart BMS, Breaker			
Communication F	Port		RS485 / CAN			
Warranty Period		10 Year				
Certification		UN38.3、0	CB、CE-EMC、IEC 62619、EN IEC 62	040-1		
	Product Dimension	482.6x565x150MM				
Control Module	Package Dimension		687x562x269MM			
FLH48100UCG1	Product Weight Approximate		10.3KG			
	Package Weight Approximate		16.7KG			
	Product Dimension		482.6x565x131MM			
	Package Dimension		687x562x250MM			
Battery Module FLH48100UMG1	Product Weight Approximate		41.3KG			
121110100011101	Package Weight Approximate		45KG			
Battery Designation[3]		IFpF	P/54/150/120/[(1P16S)NS]M/-20+	50/95		
	Product Dimension		560×590×2137.5MM (13th Floor	r)		
Rack	Package Dimension		165×640×2142MM			
FLH48100R13G1	Product Weight Approximate		62KG			
	Package Weight Approximate		69.5KG			
	Product Dimension		560×590×1565.5MM (9th Floor)	)		
Rack	Package Dimension		168×642×1570MM			
FLH48100R9G1	Product Weight Approximate	46KG				
	Package Weight Approximate		52KG(Approx)			

<sup>[1]</sup> Max. Continuous Charge/Discharge Current/Power is Affected by Temperature and SOC.

<sup>[2]</sup> Test Conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

<sup>[3] &</sup>quot;N"Means the Number of Battery Packs Connected Series and Should not Exceed 12.(N  $\!\!\!<\!\!12)$ 

 $<sup>{}^{\</sup>star}\mathsf{Product}\,\mathsf{specifications}\,\mathsf{may}\,\mathsf{vary}\,\mathsf{during}\,\mathsf{continuous}\,\mathsf{improvements}.\,\mathsf{Please}\,\mathsf{contact}\,\mathsf{us}\,\mathsf{for}\,\mathsf{latest}\,\mathsf{details}.$ 

<sup>\*</sup>Refer to Felicitysolar's Warranty Policy for applicable conditions.



# ALL-IN-ONE System

# Household Energy Storage System

LFP Battery-Inverter Integrated System

# Commercial & Industrial Energy Storage System

Liquid Cooling System

Air Cooling System



Model	Al100-5048 ESS
Investor Parameters	Al100-5048
Inverter Parameters	5000VA
Rated Output Power	5000VA 5000W
Naminal DC Input Valtage	
Nominal DC Input Voltage	48V
Nominal Input Voltage	230Vac
Nominal Input Frequency	50Hz/60Hz(Auto detection)
Parallel Capability	Yes, up to 12 units
PCS (In Progress)	CE-EMC、CE-LVD
Utility Charge Mode Specifications	2204
Nominal Input Voltage	230Vac
Nominal Output Voltage	230Vac
Input Voltage Range	90~280Vac
Max. Charge Current	100A
Solar Charging & Grid Charging	Tools
Max. PV Open Circuit Voltage	500V
Max. Input Power	6000W
Max. Solar Charging Current	100A
Max. Charging Current(PV+Grid)	100A
Max. Input Current	25A
General Specifications	
Protection Level Protection Level	IP20
Net Weight (KG)	17.8KG
Product Size(D*W*H)	710x350x180MM
Package Dimension(D*W*H)	792x507x278MM
battery Parameters	Al100-B5
Capacity	5.12kWh
Battery Type	LiFePO4
Nominal Voltage	51.2V
Operating Voltage	44.8-57.6V
Recommend Charge/Discharge Current [1]	≤100A
Recommend Charge/Discharge Power [1]	≤5,000W
Maximum Charge/Discharge Current (15s)	150A
Maximum Charge/Discharge Power (15s)	7,500W
Depth of Discharge (DOD)	≥95%
Scalability	Max. 15 pcs in Parallel(76.8kWh)
Communication	RS485/CAN
Protection Level	IP21
Cycle Life [2]	≥6,000 Cycles
Display	LED
Installation	Wall-Mounted/Floor-Mounted
Protection	Built-in smart BMS, Breaker, Fuse
Warranty	5 Years
Certification	UN38.3
Net Weight	45KG
Gross Weight	49.5KG
Product Dimension	660X420X180MM
Package Dimension	822X522X278MM
	022/,022/,C10mm

\*Refer to Felicitysolar's Warranty Policy for applicable conditions.



Model	AI100-8048 ESS
Inverter Parameters	Al100-8048
Rated Output Power	8000VA
·	8000W
Nominal DC Input Voltage	48V
Nominal Input Voltage	230Vac
Nominal Input Frequency	50Hz/60Hz(Auto detection)
Parallel Capability	Yes, up to 6units
PCS (In Progress)	CE-EMC、CE-LVD
Utility Charge Mode Specifications	
Nominal Input Voltage	230Vac
Nominal Output Voltage	230Vac
Input Voltage Range	90~280Vac
Max. Charge Current	150A
Solar Charging & Grid Charging	
Max. PV Open Circuit Voltage	500V
Max. Input Power	10000W (5000W for Single PV)
Max. Solar Charging Current	150A
Max. Charging Current(PV+Grid)	150A
Max. Input Current	20A×2(MAX40A)
General Specifications	
Protection Level	IP20
Net Weight (KG)	26.8KG
Product Size(D*W*H)	660x500x180MM
Package Dimension(D*W*H)	792x657x278MM
battery Parameters	Al100-B5
Capacity	5.12kWh
Battery Type	LiFePO4
Nominal Voltage	51.2V
Operating Voltage	44.8-57.6V
Recommend Charge/Discharge Current [1]	≤100A
Recommend Charge/Discharge Power [1]	≤5,000W
Maximum Charge/Discharge Current (15s)	150A
Maximum Charge/Discharge Power (15s)	7,500W
Depth of Discharge (DOD)	»95%
Scalability	Max. 15 pcs in Parallel(76.8kWh)
Communication	RS485/CAN
Protection Level	IP21
Cycle Life [2]	≥6,000 Cycles
Display	LED
Installation	Wall-Mounted/Floor-Mounted
Protection	Built-in smart BMS, Breaker, Fuse
Warranty	5 Years
Certification	UN38.3
Net Weight	45KG
	49.5KG
Gross Weight Product Dimension	
	660X420X180MM
Package Dimension [1] Recommend Charge/Discharge Current/Power is Affected by Te	822X522X278MM
	THE PROPERTY OF THE PROPERTY O

\*Refer to Felicitysolar's Warranty Policy for applicable conditions.



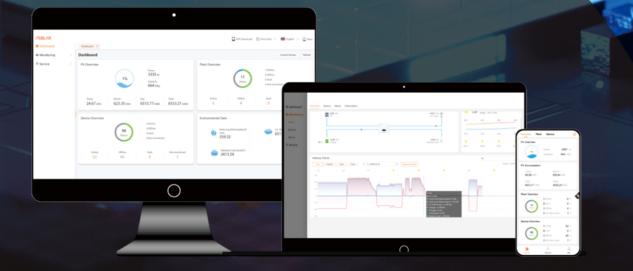
CC         Cell         LFP 280Ah           Number of MPPT         2         2           MPPT Operating Voltage/Foll Load Voltage         250-850/450-850           Protection         Circuit Braker and Fuse           Protection         14.336/Why LPLES           Maximum PVI Input Voltage/Fower         10000V / 1208W           System Capacity / Arrangement         14.436 Why LPLES           Nominal Current         40.40           Nominal Current         40.52 p.           Nominal Current         40.52 p.           NoE Rickency         94%           NoE Rickency         94%           No Extra System Capacity / Arrangement         1006W           No Extra System Capacity / Arrangement         40.52 p.           No Extra System Capacity / Arrangement         40.52 p.           No Extra System Capacity / Arrangement         40.52 p.           No Extra System Capacity / Arrangement         1006W           No Extr	Model	FLS-MES215AF-S		
Cell         LFP 280Mh           Number of MPPT         2           Number of MPPT         2           Protection         Circuit Braker and Fuse           Pack Capacity / Arrangement         14.336Wh/ 1P16S           Maximum PVI input Vottage/Power         1000 / 1700W           System Capacity / Arrangement         215kWh/1P240S           Nominal Current         100A           Charge (Discharge Rate         0.5Cp           DC Efficiency         94%           AC (On Grid)         Very Capacity           AC (On Grid)         Very Capacity           Nominal Output Ower         100KW           Nominal Output Vottage         AC240/~460V           Power Factor         1-/~1           Nominal Output Current         44A           Nominal Output Current         14A           Nominal Output Dower         100KW           Nominal Output Power         100KW           Nominal Output Output Power         100KW           Nominal Output Current         14AA           <				
Number of MPFT         2           MPFT Operating Voltage/Full Load Voltage         250-850/490-850           Protection         Circuit Braker and Fuse           Pack Capacity /Arrangement         14.336kWh / IPL6S           Maximum PVI Input Voltage/Prover         1000V / 120kW           System Capacity /Arrangement         120kWh / IPL40S           Nominal Current         140A           Charge/Bischarge Rate         6.05cp           Ce Efficiency         94%           De Efficiency         94%           ACCON Grid         100KW           Nominal Output Power         100KW           Nominal Output Voltage         AC340V-460V           Power Factor         11           Nominal Output Current         144A           Nominal Output Current         100KW           Nominal Input Voltage         AC 000K           Nominal Unput Courrent         100KW           Nominal Output Current         124A           Nominal Output Current         124A           Nominal Cirid Frequency         50Hz/60Hz           Output Wining         3P+N+PE (Isolated Transformer, STS Inside)           System         Controlled           Overall System Efficiency         57H& 0.5CM           Comm	DC			
MPPT Operating Voltage/Full Load Voltage         250-850/450-850           Protection         Circuit Braker and Fuse           Pack Capacity /Arrangement         14.336MM/ 1P185           Maximum PV Input Voltage/Power         1000V/ 120kW           System Capacity /Arrangement         215kWh/1P240S           Nominal Current         140A           Charge/Discharge Rate         60.5Cp           DE Efficiency         94%           AC (On Grid)         Wind County Power           Nominal Output Power         100KW           Nominal Input Voltage         4.0340V-460V           Power Factor         1.44A           Nominal Grid Frequency         50Hr/60Hz           Wiring         39-N-NPE           Nominal Output Current         1.00KW           Nominal Output Power         1.00KW           Nominal Output Power         1.00KW           Nominal Output Power         1.00KW           Nominal Output Current         4.400V           Nominal Output Current         1.14A           Nominal Grid Frequency         39Hr/PE (solated Transformer, STS Inside)           System         1.00KW           Nominal Output Current         3144A           Nominal Output Current         4.54	Cell	LFP 280Ah		
Protection         Circuit Braker and Fuse           Pack Capacity (Arrangement         14.336kWh*, I*PISS           Maximum PV Input Voltoge/Power         0.0000/120kW           System Capacity (Arrangement         2.15kWh; 1*PIAS           System Capacity (Arrangement)         2.15kWh; 1*PIAS           Nominal Current         1.40A           Charge/Pischarge Rate         4.05.Cp.           De Efficiency         94%           ACCON Grid!         4.00K           Nominal Output Power         1.00KW           Nominal Output Current         4.04A           Nominal Output Current         1.44A           Nominal Output Current         1.00KW           Nominal Output Power         1.00KW           Nominal Output Power         1.00KW           Nominal Output Current         1.00KW           Nominal Output Current         1.00KW           Nominal Output Current         1.44A           Nominal Output Current         1.44A           Nominal Output Current         1.44A           Nominal Output Current         1.44A           Output Wiring         3P+N+PE (Isolated Transformer, STS inside)           System         5           Output Wiring         3P+N+PE (Isolated Transformer, STS inside)     <	Number of MPPT	2		
Pack Capacity /Arrangement         14.336kWh / 1P16S           Maximum PV Input Voltage/Power         1000V / 120kW           System Capacity /Arrangement         215kWh/1924SS           Nominal Current         140A           Charge/Discharge Rate         40.5Cp           DC Efficiency         94%           ACCION GRID         100kW           Nominal Output Power         100kW           Nominal Input Voltage         61.24HV-460V           Power Factor         11           Nominal Grid Frequency         50Hz/GBHz           Wiring         3PN-PE           ACCOFFord         100kW           Nominal Grid Frequency         50Hz/GBHz           Mominal Input Voltage         100kW           Nominal Grid Frequency         100kW           Nominal Grid Frequency         100kW           Nominal Grid Frequency         50Hz/GBHz           Nominal Grid Frequency         50Hz/GBHz           Vourbuf Wiring         3P+N+PE (solated Transformer, STS Inside)           System         144A           Nominal Grid Frequency         878-85.5 kB, CB/FBTD           Owently System Efficiency         878-85.5 kB, CB/FBTD           Owently System Efficiency         878-85.5 kB, CB/FBTD           <	MPPT Operating Voltage/Full Load Voltage	250~ 850/450 ~850		
Maximum PV Input Voltage/Power         1000V / 120kW           System Capacity / Arrangement         215kWh/1P2405           Nominal Current         140A           Charge/Discharge Rate         <0.5cp	Protection	Circuit Braker and Fuse		
System Capacity / Arrangement         215kWh / IP240S           Nominal Current         140A           Charge/Discharge Rate         <0.5Cp	Pack Capacity /Arrangement	14.336kWh/1P16S		
Nominal Current         140A           Charge/Discharge Rate         <0.5Cp	Maximum PV Input Voltage/Power	1000V / 120kW		
Charge/Discharge Rate         \$94%           ACION ordion           Nominal Output Power         100KW           Nominal Input Voltage         AC340V-460V           Power Factor         1-~1           Nominal Output Current         144A           Nominal Grégneurcy         50Hz/60Hz           Wiring         3P+N+PE           AC (Off Grid)         ***           AC (Off Grid)           The Output Power         100KW           Nominal Output Power         100KW           Nominal Input Voltage         AC400V           ThD         Linear <1%/Nonlinear <5%	System Capacity /Arrangement	215kWh/1P240S		
DC Efficiency         94%           AC Cons rid           Nominal Output Power         100KW           Nominal Input Voltage         AC340V-460V           Power Factor         1-~1           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Wiring         3PN-PE           AC Coff Grid)         ************************************	Nominal Current	140A		
AC(On Grid)           Nominal Dutput Power         100KW           Nominal Input Voltage         AC340V~460V           Power Factor         1-1           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Wiring         3P*N*PE           AC (Off Grid)         ***CORTGIN           Nominal Output Power         100KW           Nominal Input Voltage         AC400V           THD         Linear ≤1%/Nonlinear ≤5%           Nominal Grid Frequency         50Hz/60Hz           Output Wiring         3P*N*PE (solated Transformer, \$TS Inside)           System         ***Output Wiring           System Ffliciency         87%&0.5P (\$TD)           Overall System Efficiency         87%&0.5P (\$TD)           Communication         R54%&0.5P (\$TD)           Fire Prevention         FK5112           DO         5-95%           Charging/Discharging Rate         ≤0.5Cp           Cooling Power         1.1 kW/3.0 kW           Cooling Power         9.20°C~50°C/<45°C (2+5°C Derating)	Charge/Discharge Rate	≤0.5Cp		
Nominal Output Power         100KW           Nominal Input Voltage         AC340V~460V           Power Factor         1~1           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Wiring         3PH×PE           AC OUTG Grid           Nominal Output Power           Nominal Input Voltage         10KW           Nominal Input Voltage         AC400V           THD         Linear ≤15% Nonlinear ≤5%           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Output Wiring         3P+N+PE (Isolater Transformer, STS Inside)           System           Overall System Efficiency         87%&0.5P (STD)           Communication         RS485, CAN, TCP/IP           Fire Prevention         FK5112           ODD         5-95%           Charging/Discharging Rate         <0.5Cp           Cooling Power         1.1 kW/3.0 kW           Cooling Power         1.1 kW/3.0 kW           Cooling Power         7.0 ccc April 1.2 kW/3.0 kW           Cooling Power         5-95% Cooling Power           Cabinet Enclosure Protection for Cabinet         1P54	DC Efficiency	94%		
Nominal Input Voltage         AC340V-460V           Power Factor         1-~1           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Wiring         3P+N+PE           AC (Off Grid)         ************************************	AC (On Grid)			
Power Factor         .1~1           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Wiring         3P+N+PE           AC (Off-oil)	Nominal Output Power	100KW		
Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Wiring         3P+N+PE           AC Off Grid)           Nominal Output Power         100KW           Nominal Input Voltage         AC 400V           THD         Linear ≤1%/Nonlinear ≤5%           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Output Wiring         3P+N+PE (Isolated Transformer, STS Inside)           System         System           Overall System Efficiency         87%80.5P (STD)           Communication         R5485, CAN, TCP/IP           Fire Prevention         Fk5112           DOD         5-95%           Charging/Discharging Rate         €.0.5Cp           Cooling Power         1.1 kW/3.0 kW           Cooling Power         1.1 kW/3.0 kW           Cooling Temperature         -2.0°C~50°C/245°C Derating)           Cabinet Enclosure Protection for Cabinet         1P54           Warranty Period         5 Years           Relative Humidity Range         5 -95%RH (no Condensing)           Noise         -75dB           Weight         3900KG           Max. Operation Altitude         4 3000M <t< td=""><td>Nominal Input Voltage</td><td>AC340V~460V</td></t<>	Nominal Input Voltage	AC340V~460V		
Nominal Grid Frequency         50Hz/60Hz           Wiring         3P+N+PE           AC (OF Grid)           Nominal Output Power         100KW           Nominal Input Voltage         AC400V           THD         Linear ≤19K/Nonlinear ≤5%           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Output Wiring         3P+N+PE (Isolated Transformer, STS Inside)           System           Overall System Efficiency         87%8.0.5P (STD)           Communication         R5485, CAN, TCP/IP           Fire Prevention         Fk5112           DOD         5-95%           Charging/Discharging Rate         €.0.5Cp           Cooling Power         1.1 kW/3.0 kW           Cooling Power         1.1 kW/3.0 kW           Cooling Coperation Emperature         2-20°C->50°C/>45°C (>45°C Derating)           Cabinet Enclosure Protection for Cabinet         IP54           Warranty Period         5 Years           Relative Humidity Range         5-95%RI (no Condensing)           Noise         -75dB           Weight         3900MG           Max. Operation Altitude         43000M           Size (MM)         2450(L)×1550(D)×2400(H)     <	Power Factor	-1~1		
Wiring         3P+N+PE           AC (Off Grid)           Nominal Output Power         100KW           Nominal Input Voltage         AC 400V           THD         Linear ≤1%/Nonlinear ≤5%           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Output Wiring         3P+N+PE (Isolated Transformer, STS Inside)           System         The state of transformer, STS Inside)           System         System Efficiency           Communication         R5485, CAN, TCP/IP           Fire Prevention         Fk5112           DOD         5-95%           Charging/Discharging Rate         ≤0.5Cp           Cooling Power         1.1 kW/3.0 kW           Cooling Power         1.1 kW/3.0 kW           Cooling         Forced air Cooling           Operation Temperature         -20°C~50°C/~45°C Derating)           Cabinet Enclosure Protection for Cabinet         IP54           Warranty Period         5 Years           Relative Humidity Range         5-95%RH (no Condensing)           Noise         -75dB           Weight         3900KG           Max. Operation Altitude         ≤3000M           Size (MM)         2450(L) ×1550(D) ×2400(H)	Nominal Output Current	144A		
Nominal Output Power  Nominal Input Voltage  AC400V  THD  Linear ≤1%/Nonlinear ≤5%  Nominal Output Current  144A  Nominal Grid Frequency  Output Wiring  System  Overall System Efficiency  I System Efficiency  Overall System System Efficiency  Overall System Syste	Nominal Grid Frequency	50Hz/60Hz		
Nominal Output Power         100KW           Nominal Input Voltage         AC400V           THD         Linear ≤1%/Nonlinear ≤5%           Nominal Output Current         144A           Nominal Grid Frequency         50Hz/60Hz           Output Wiring         3P+N+PE (Isolated Transformer, STS Inside)           System           Overall System Efficiency         87%80.5P (STD)           Communication         RS485, CAN, TCP/IP           Fire Prevention         Fk5112           DOD         5-95%           Charging/Discharging Rate         <0.5Cp	Wiring	3P+N+PE		
Nominal Input Voltage       AC400V         THD       Linear ≤1%/Nonlinear ≤5%         Nominal Output Current       144A         Nominal Grid Frequency       50Hz/60Hz         Output Wiring       3P+N+PE (Isolated Transformer, STS Inside)         System         Overall System Efficiency         Overall System Efficiency       87%80.5P (STD)         Communication       R5485, CAN, TCP/IP         Fire Prevention       Fk5.112         DOD       5-95%         Charging/Discharging Rate       €0.5Cp         Cooling Power       1.1 kW/ 3.0 kW         Cooling       Forced air Cooling         Operation Temperature       20°C ~50°C (>45°C Derating)         Cabinet Enclosure Protection for Cabinet       IP54         Warranty Period       5-95%RH (no Condensing)         Noise       <75dB         Weight       3900KG         Max. Operation Altitude       ≤3000M         Size (MM)       2450(L)×1550(D)×2400(H)         Certification       Battery: UN38.3	AC (Off Grid)			
Nominal Input Voltage       AC400V         THD       Linear ≤1%/Nonlinear ≤5%         Nominal Output Current       144A         Nominal Grid Frequency       50Hz/60Hz         Output Wiring       3P+N+PE (Isolated Transformer, STS Inside)         System         Overall System Efficiency         Overall System Efficiency       87%80.5P (STD)         Communication       R5485, CAN, TCP/IP         Fire Prevention       Fk5.112         DOD       5-95%         Charging/Discharging Rate       €0.5Cp         Cooling Power       1.1 kW/ 3.0 kW         Cooling       Forced air Cooling         Operation Temperature       20°C ~50°C (>45°C Derating)         Cabinet Enclosure Protection for Cabinet       IP54         Warranty Period       5-95%RH (no Condensing)         Noise       <75dB         Weight       3900KG         Max. Operation Altitude       ≤3000M         Size (MM)       2450(L)×1550(D)×2400(H)         Certification       Battery: UN38.3	Nominal Output Power	100KW		
THDLinear ≤1%/Nonlinear ≤5%Nominal Output Current144ANominal Grid Frequency50Hz/60HzOutput Wiring3P+N+PE (Isolated Transformer, STS Inside)SystemOverall System EfficiencyCommunication87%80.5P (STD)CommunicationRS485, CAN, TCP/IPFire PreventionFk5112DOD5-95%Charging/Discharging Rate€0.5CpCooling Power1.1 kW/3.0 kWCooling Operation Temperature-20°C~50°C/>45°C Derating)Operation Temperature1P54Warranty Period5 YearsRelative Humidity Range5-95%RH (no Condensing)Noise<75dB		AC400V		
Nominal Grid Frequency       50Hz/60Hz         Output Wiring       3P+N+PE (Isolated Transformer, STS Inside)         System         Overall System Efficiency       87%80.5P (STD)         Communication       RS485, CAN, TCP/IP         Fire Prevention       Fk5112         DOD       5-95%         Charging/Discharging Rate       <0.5Cp	THD	Linear ≤1%/Nonlinear ≤5%		
Output Wiring3P+N+PE (Isolated Transformer, STS Inside)SystemOverall System Efficiency87%&0.5P (STD)CommunicationRS485, CAN, TCP/IPFire PreventionFk5112DOD5~95%Charging/Discharging Rate<0.5CpCooling Power1.1 kW/ 3.0 kWCooling Power1.1 kW/ 3.0 kWCoolingForced air CoolingOperation Temperature-20°C~50°C(>45°C Derating)Cabinet Enclosure Protection for CabinetIP54Warranty Period5 YearsRelative Humidity Range5~95%RH (no Condensing)Noise<75dBWeight3900KGMax. Operation Altitude<3000MSize (MM)2450(L)×1550(D)×2400(H)CertificationBattery: UN38.3	Nominal Output Current	144A		
System         Overall System Efficiency       87%&0.5P (STD)         Communication       RS485, CAN, TCP/IP         Fire Prevention       Fk5112         DOD       5~95%         Charging/Discharging Rate       <0.5Cp	Nominal Grid Frequency	50Hz/60Hz		
System         Overall System Efficiency       87%&0.5P (STD)         Communication       RS485, CAN, TCP/IP         Fire Prevention       Fk5112         DOD       5~95%         Charging/Discharging Rate       <0.5Cp	Output Wiring	3P+N+PE (Isolated Transformer, STS Inside)		
CommunicationRS485, CAN, TCP/IPFire PreventionFk5112DOD5~95%Charging/Discharging Rate≤0.5CpCooling Power1.1 kW/3.0 kWCoolingForced air CoolingOperation Temperature-20°C~50°C(>45°C Derating)Cabinet Enclosure Protection for CabinetIP54Warranty Period5 YearsRelative Humidity Range5~95%RH (no Condensing)Noise<75dB	System			
Fire Prevention  DOD  5-95%  Charging/Discharging Rate  Cooling Power  Cooling Power  Cooling  Operation Temperature  Cabinet Enclosure Protection for Cabinet  Warranty Period  Relative Humidity Range  Noise  Weight  Wax. Operation Altitude  Size (MM)  Cooling  Fk5112  S-95%  Cooling  Forced in Cooling  Forced air Cooling	Overall System Efficiency	87%&0.5P (STD)		
DOD 5-95% Charging/Discharging Rate ≤0.5Cp Cooling Power 1.1 kW/ 3.0 kW Cooling Operation Temperature -20°C~50°C(>45°C Derating) Cabinet Enclosure Protection for Cabinet IP54 Warranty Period 5 Years Relative Humidity Range 5-95%RH (no Condensing) Noise <75dB Weight 3900KG Max. Operation Altitude ≤3000M Size (MM)  Certification  S-95% S-95% Source S-95%	Communication	RS485, CAN, TCP/IP		
Charging/Discharging Rate       ≤0.5Cp         Cooling Power       1.1 kW/3.0 kW         Cooling       Forced air Cooling         Operation Temperature       -20°C~50°C(>45°C Derating)         Cabinet Enclosure Protection for Cabinet       IP54         Warranty Period       5 Years         Relative Humidity Range       5~95%RH (no Condensing)         Noise       <75dB	Fire Prevention	Fk5112		
Cooling Power1.1 kW/3.0 kWCoolingForced air CoolingOperation Temperature-20°C∼50°C(>45°C Derating)Cabinet Enclosure Protection for CabinetIP54Warranty Period5 YearsRelative Humidity Range5~95%RH (no Condensing)Noise<75dB	DOD	5~95%		
Cooling Power1.1 kW/3.0 kWCoolingForced air CoolingOperation Temperature-20°C∼50°C(>45°C Derating)Cabinet Enclosure Protection for CabinetIP54Warranty Period5 YearsRelative Humidity Range5~95%RH (no Condensing)Noise<75dB	Charging/Discharging Rate	≤0.5Cp		
Operation Temperature  -20°C~50°C(>45°C Derating)  Cabinet Enclosure Protection for Cabinet  Warranty Period  S Years  Relative Humidity Range  5~95%RH (no Condensing)  Noise  <75dB  Weight  3900KG  Max. Operation Altitude  \$3000M  Size (MM)  Certification  Battery: UN38.3	Cooling Power	1.1 kW/ 3.0 kW		
Cabinet Enclosure Protection for Cabinet  Warranty Period  S Years  Relative Humidity Range  5~95%RH (no Condensing)  Noise    ✓75dB  Weight  3900KG  Max. Operation Altitude  Size (MM)  Certification  Battery: UN38.3  IP54  S Years  5~95%RH (no Condensing)  ✓75dB  З900KG  В 3900KG  В 3900KG  В 3900M  В 3900КО  В 3900М  В 3900КО  В 3900К	Cooling	Forced air Cooling		
Warranty Period 5 Years  Relative Humidity Range 5~95%RH (no Condensing)  Noise <75dB  Weight 3900KG  Max. Operation Altitude ≤3000M  Size (MM) 2450(L)×1550(D)×2400(H)  Battery: UN38.3	Operation Temperature	-20°C~50°C(>45°C Derating)		
Warranty Period 5 Years  Relative Humidity Range 5~95%RH (no Condensing)  Noise <75dB  Weight 3900KG  Max. Operation Altitude ≤3000M  Size (MM) 2450(L)×1550(D)×2400(H)  Battery: UN38.3	Cabinet Enclosure Protection for Cabinet	IP54		
Relative Humidity Range 5~95%RH (no Condensing)  Noise <a href="#">&lt;75dB</a> Weight 3900KG  Max. Operation Altitude ≤3000M  Size (MM) 2450(L)×1550(D)×2400(H)  Battery: UN38.3		5 Years		
Noise         <75dB	Relative Humidity Range	5~95%RH (no Condensing)		
Weight         3900KG           Max. Operation Altitude         ≤3000M           Size (MM)         2450(L)×1550(D)×2400(H)           Certification         Battery: UN38.3				
Max. Operation Altitude     ≤3000M       Size (MM)     2450(L)×1550(D)×2400(H)       Certification     Battery: UN38.3				
Size (MM)         2450(L)×1550(D)×2400(H)           Battery: UN38.3				
Certification Battery: UN38.3				
Certification				
1 63. EN 303 13 14 EN 303 13 104 6E ENIO, 6E EVD	Certification	PCS: EN 50549-1、EN 50549-10、CE-EMC、CE-LVD		

<sup>\*</sup>Conditions Apply, Refer to Felicitysolar Warranty Letter.

### FSOLAR Smart Energy Management Platform



The FSOLAR Smart Energy Management Platform is designed to provide comprehensive monitoring, analysis, and management of your energy systems. It allows you to maximize energy efficiency, optimize usage, and enhance system performance.



### 1. Real-time Data Insight

- Track daily, monthly, yearly and cumulative energy generation of all systems and individual units.
- Access battery pack details, including current, voltage, SOC, etc.





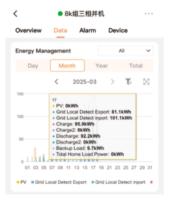
### 2. System and Device Status Monitoring

- Real-time devices status: online, offline, faulty, or unmonitored.
- Easily identify the current health and operational status of your system.

### 

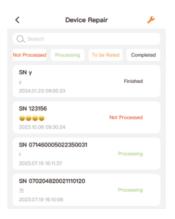
### 3. Historical Data Analysis

- Use data insights to optimize energy usage and improve efficiency.
- Export historical data for further analysis and record-keeping.



### 5. After-Sales Support

- Submit a request, and our support team will reply within 12 hours, offer solution within 24 hours.
- Local service points deployment for fast on-site inspection and repair services.

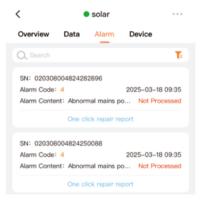


### **Plant Overview**



### 4. Immediate Alerts for Abnormal Situations

- Receive instant alerts for system malfunctions or abnormal conditions.
- Take immediate actions to prevent potential losses and downtime.



### 6. OpenAPI

- Comprehensive Data Access: battery SOC, temp, device status, etc.
- Real-Time Monitoring & Alerts: empower third-party devices tobuild dynamic dashboards for live insights and configure automated alert.

### **APP Download**





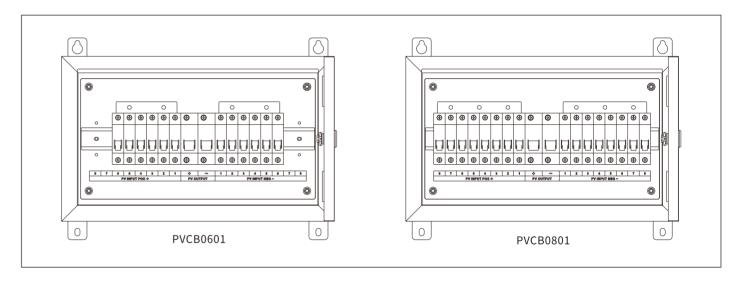






Model	PVCB0601	PVCB0801	
Max. Imum Input Voltage	500V	500V	
Max. Imum Number of Input Paths	6	8	
Max. Imum Allowable Input Current of Branch	15A	15A	
Max. Imum Output Current	100A	100A	
Lightning Protection Device	Surge Switch		
Shell Material	Metal Chassis		
Input Cable Diameter	4~8mm²		
Output Cable Diameter	5~10mm²		
Protection Level	IP54		
Operating Temperature Range	-10°C~40°C		
Net Weight(KG)	5.8KG	6.3KG	
Gross Weight(KG)	6.7KG 7.2KG		
Product Dimension(MM)	430×260×118MM	3MM 430×260×118MM	
Package Dimension(MM)	487×337×179MM	487×337×179MM 487×337×179MM	

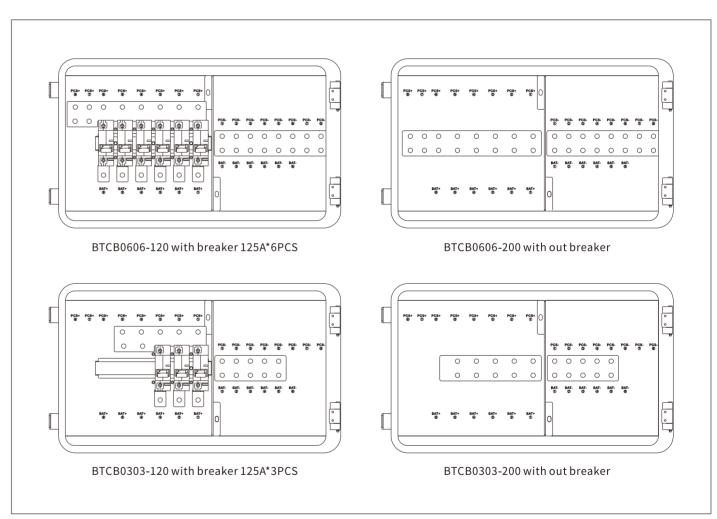
### Internal Schematic Diagram of the Product





Model	BTCB0606-120	BTCB0606-200	BTCB0303-120	BTCB0303-200
Max. Imum Number of Input Paths	6	6	3	3
Rated Voltage of Branch[V]	80	/	80	/
Branch Rated Current[A]	125	200	125	200
Battery Switch	PEBS-L	/	PEBS-L	/
Shell Material	Metal Chassis			
Protection Level	IP21			
Operating Temperature Range	-10°C~50°C			
Net Weight(KG)	8.1KG	7.1KG	7.4KG	6.8KG
Gross Weight(KG)	9.7KG	8.7KG	9.0KG	8.4KG
Product Dimension(MM)	516×300×136MM			
Package Dimension(MM)	592×392×218MM			

### Internal schematic diagram of the product



## User Gases

### Europe, Americas & Australia













