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

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- No. 2, Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou (Only 10 Mins from Baiyun Airport)



### **SOLAR ENERGY STORAGE SOLUTIONS**

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

**Grobal Version** 



Official Websit



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Digital Version of Catalog







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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

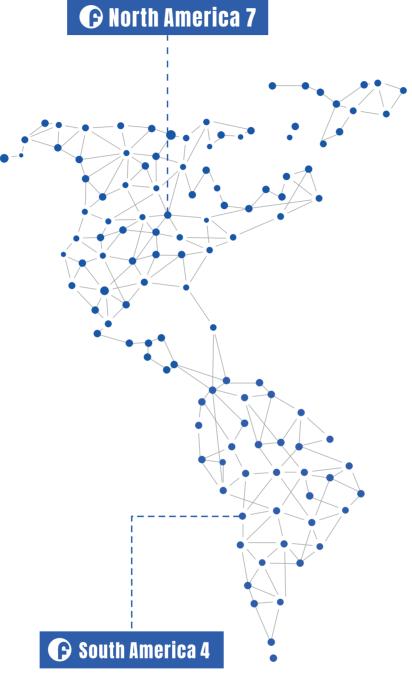


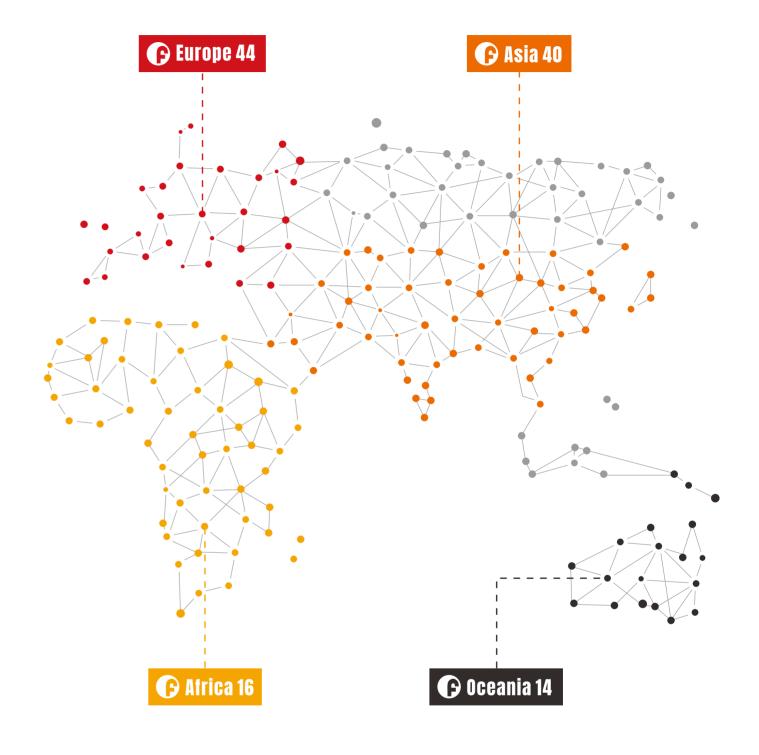
## About Us

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

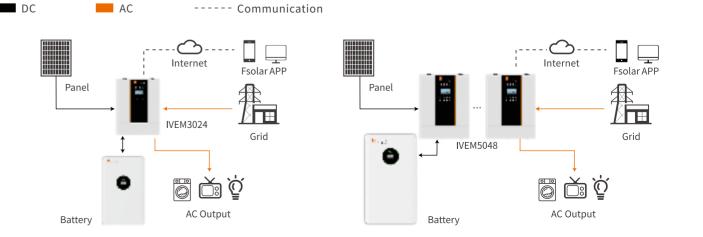
# Micro Inverter

Grid-tied | Single Phase | Low Voltage



Model	IVEM3024	IVEM5048	
Line Mode Specifications			
Rated Output Power(VA)	3000VA	5000VA	
Rated Output Power(W)	3000W	5000W	
Nominal DC Input Voltage	24V	48V	
Nominal Input Voltage		OVac	
Max. AC Input Voltage		OVac	
Nominal Input Frequency		Auto Detection)	
Efficiency(Line Mode)		Battery Full Charged)	
Pass Through Without Battery	Υ	'es	
Utility Charge Mode Specifications			
Nominal Input Voltage	230	OVac	
nput Voltage Range		80Vac	
Max. Charge Current	10	00A	
Over Charge Protection	Υ	'es	
Solar Charging & Grid Charging			
Max. PV Open Circuit Voltage	50	00V	
PV Voltage Working Range	120V	7-500V	
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	25V	
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	).5s @105% ~150%Load	
Surge Rating	2* Rated F	Power 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	

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



### Off-grid High-frequency Solar Inverter

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	DVA
Rated Output Power(W)	6000	0W
Nominal DC Input Voltage	48	V
Nominal Input Voltage	230\	Vac
Max. AC Input Voltage	280\	Vac
Nominal Input Frequency	50Hz / 60Hz (Au	·
Efficiency(Line Mode)	>95% (Rated R Load, E	Battery Full Charged)
Pass Through Without Battery	Ye	s
Utility Charge Mode Specifications		
Input Voltage Range	90~28	0Vac
Max. Charge Current	100A	120A
Over Charge Protection	Ye	S
Solar Charging & Grid Charging		
Max.PV Open Circuit Voltage	500	OV
PV Voltage Working Range	90V-4	150V
Max. Input Power	7000W	7500W
Max. Solar Charging Current	120	DA
Max. Charging Current(PV+Grid)	120	DA .
Max. Input Current	27	A
Min. Startup Voltage	95	V
Inverter Mode Specifications		
Output Voltage Waveform	Pure Sin	e Wave
Nominal Output Voltage	230Vac	±5%
Nominal Output Frequency(Hz)	50±0.3Hz/60Hz±	0.3Hz(Adjustable)
Parallel Capability	Yes, Up to	12 Units
Peak Efficiency	931	%
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 Po	ower for 5s
Capable of Starting Electric	Ye	rs
Output Short Circuit Protection	Ye	rs
General Specifications		
Operating Temperature	-10°C^	-50°C
Range Storage Temperature	-15°C <sup>-</sup>	
Net Weight(KG)	11.5KG	12.5KG

420\*335\*142MM

512\*417\*216MM

CE-EMC、IEC 62109-1/2、IEC 63027

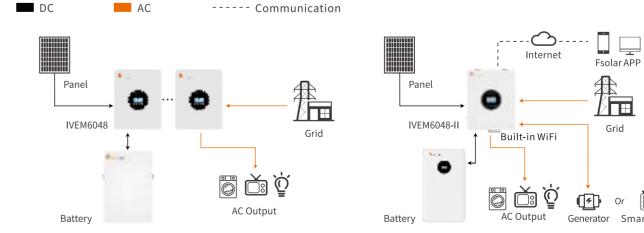
Product Dimension(MM)

Package Dimension(MM)

Certification

IVEM6048-II

**IVEM6048** 

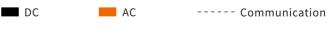


<sup>\*</sup>Refer to Felicitysolar's Warranty Policy for applicable conditions.



Model	IVEM8048	IVEM8048-II
Line Mode Specifications		
Rated Output Power(VA)	AV0008	
Rated Output Power(W)	8000W	
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, Batte	ery Full Charged)
Pass Through Without Battery	Yes	
Utility Charge Mode Specifications		
Input Voltage Range	230Vac	
Over Charge Protection	90-280Va	c
Max. Charge Current	150A	
Over Charge Protection	Yes	
Solar Charging & Grid Charging		
Max.PV Open Circuit Voltage	500V	
PV Voltage Working Range	90V-450V	
Max. Input Power 10000W(5000W for single PV)		single PV)
Max. Solar Charging Current	150A	
Max. Charging Current(PV+Grid)	150A	
Max. Input Current	20A X 2(MAX 4	40A)
Min. Startup Voltage	100V	

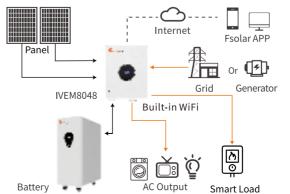
Nominal Output Voltage 230Vac+5% 50±0.3Hz/60Hz±0.3Hz(Adjustable) Nominal Output Frequency(Hz) Yes,up to 6 units Parallel Capability Peak Efficiency 94.5% Over-Load Protection(SMPS load) 5s@≥150% load; 10s @105% ~150% load Surge Rating 2\* rated power for 5s Capable of Starting Electric Output Short Circuit 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 Product Dimension(MM) 607\*464\*141MM Package Dimension(MM) 712\*582\*259MM CE-EMC、IEC 62109-1/2、IEC 63027 Certification

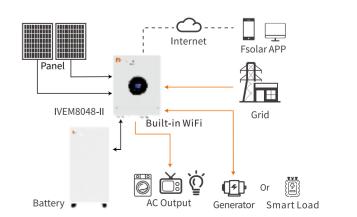


 ${}^{\star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ 

Number of MPP Trackers / Strings Per MPP Tracker

Inverter Mode Specifications
Output Voltage Waveform





2/1

Pure sine wave



Model	IVEM12048-II	
Line Mode Specifications		
Rated Output Power(VA)	12000VA	

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

Solar Charging & Grid Charging		
Over Charge Protection	Yes	
Charge Current Regulation	10-240A (Adjustable Unit is 1A)	
Max. Charge Current	240A	
Over Charge Protection	90-280Vac	
Input Voltage Range	230Vac	

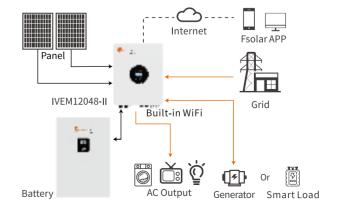
Solar Charging & Grid Charging		
Max.PV Open Circuit Voltage	500V	
PV Voltage Working Range	90V-450V	
Max. Input Power	15000W(7500W for Single PV)	
Max. Solar Charging Current	240A	
Max. Charging Current(PV+Grid)	240A	
Max. Input Current	27A X 2(MAX 54A)	
Min. Startup Voltage	100V	

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	

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

🗱 Auto restart while AC is recovering.

Cold start function.

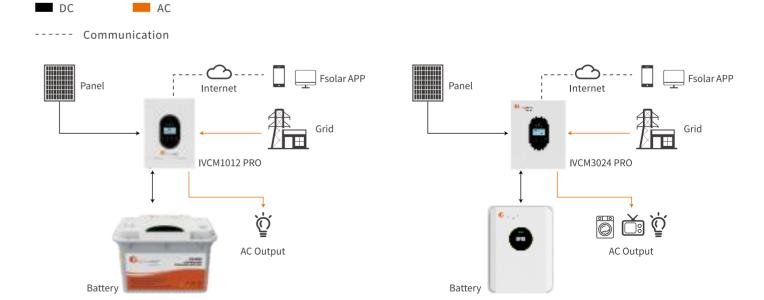


IVCM1012/2024 PRO

IVCM3024 PRO

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.

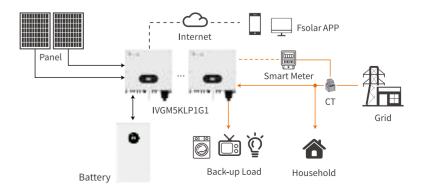




Model	IVGM5KLP1G1
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	100A/100A
Max. charging and discharging power	5000W
Battery type	Li-Ion / Lead-acid
DC Input Data(PV side)	
Max. Recommended PV Power	6500W (3500W for Single PV)
Max. PV Voltage	550V
Start Oltage	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	<del>-1-</del>
Nominal Input Voltage	230Vac
Nominal Grid Frequency	50/60Hz
Max. Input Current	40A
Max. Charge Current	100A
Max. AC Output Power	5000W
	21.7A
AC Output Rated Current	25A
Max. Output Current	30A
Max. Continuous AC Passthrough	>0.99
Power Factor	0.8(Leading) to 0.8(Lagging)
Displacement Power Factor THDI	
	<3%
AC Output Data (Back Up) Rated Output Power	F000W /F000W
	5000VA/5000W
Max. Output Current	30A
Rated AC Output Voltage	230Vac
Rated AC Output Frequency	50/60Hz
General Data	0500 0000 (500D vi
Operating Temperature Range	-25°C~60°C,>45°C Derating
Protection Degree	IP65
Cooling Concept	Nature
Communication	RS232/RS485
BMS Communication	CAN/RS485
Monitor Module	WiFi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty	10 Years
Grid Regulation	CEI 0-21、G99、VDE 4105、EN 50549-1、NRS 097-2-1、C10/11、NTS & UNE217001 & UNE217002、PORTARIA N° 140 & 515
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**

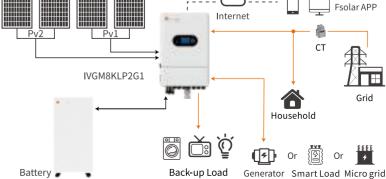
- Configurable parameters and working mode by LCD touch screen.
- Supporting WiFi monitoring and Fsolar smart cloud monitoring system.
- Battery charge and discharge current up to 190A.
- 🚳 Optimize energy use with Time-of-Use, Sell-First, and Zero Export options to maximize savings and efficiency.
- Prevent grid overload with built-in limit function while seamlessly switching between battery and grid supply within 10ms for uninterrupted power.
- 4-channel PV, 2-channel MPPT, 1.5 times over configuration capacity.
- 🍪 Programmable generator port, support smart load and micro inverter access.
- Support parallel operation with single-phase, split phase and three-phase.
- 🥏 IP65 protection level.



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-Ion /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	
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	
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### **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.

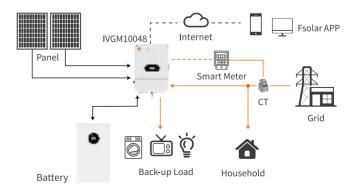
Battery Voltage Range 40V~60V 200A/200A Max. charging and discharging current Max. charging and discharging power 10000W Battery type Li-Ion / Lead-acid DC Input Data(PV side) Max. Recommended PV Power 13000W (6500W for Single PV) Max. PV Voltage 900V Start Oltage 180V PV Voltage Range 160V-900V 200V-850V MPPT Voltage Range 450V-850V MPPT Voltage Range for Full Load 720V Nominal Voltage 15A/15A Max. Input Current 18A/18A Max. Shorted Current Number of MPP Trackers / Strings Per MPP Tracker 2/1 Nominal Input Voltage L1/L2/L3/N/PE, 230/400Vac Nominal Grid Frequency 50/60Hz Max. Input Current 30A 200A Max. Charge Current 10000W Max. AC Output Power 14.5A AC Output Rated Current 18A Max. Output Current 30A Max. Continuous AC Passthrough >0.99 Power Factor 0.8(Leading) to 0.8(Lagging) Displacement Power Factor THDI <3% Rated Output Power 10000VA/10000W Max. Output Current Rated AC Output Voltage L1/L2/L3/N/PE, 230/400Vac Rated AC Output Frequency 50/60Hz -25°C~60°C,>45°C Derating Operating Temperature Range Protection Degree IP65 Cooling Concept Smart cooling RS232/RS485 Communication CAN/RS485 **BMS** Communication WiFi/GPRS Monitor Module Display LCD+LED Installation Style Wall-mounted Warranty 10 Years **Grid Regulation** VDE-AR-N 4105 IEC 62109-1/-2 Safety Regulation Net Weight(KG) 38.9KG Gross Weight(KG) 47.1KG 655\*475\*266MM Product Dimension(MM) Package Dimension(MM) 792\*597\*351MM

IVGM10048

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



IVGM10048



### **Hybrid Solar Inverter**

IVGM Series High-voltage | Three Phase

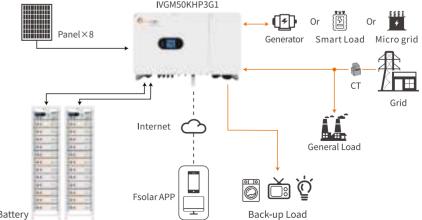
### Features

- Supports WiFi monitoring and Fsolar smart cloud monitoring system.
- \* Seamless power supply switching within 10ms.
- Configurable parameters and working mode via LCD touch screen.
- Programmable supply priority for battery or grid.
- Programmable multiple operation modes: On grid, off grid and UPS.
- 8-channel PV,4-channel MPPT, 1.3 times over configuration capacity.
- 2 independent battery inputs, effectively reducing inter-cluster circulation.
- Wide battery voltage input and high battery charge and discharge current up to 50A.
- Programmable generator port, support smart load and micro inverter access.

IVGM50KHP3G1

- IP65 protection level.
- 12pcs in parallel maximum.
- Auto restart while AC is recovering.

IVGM50KHP3G1 Battery Type LFP (LiFePO4) Battery Voltage Range 160~800Vdc Max. Charging Current 50+50(A) Max. Discharging Current 50+50(A) Number of Battery Input Max. DC Input Power 65KW(16KW for Single PV) Max. DC Input Voltage 1000Vdc Min. DC Input Voltage 150Vdc Start-up Voltage 250Vdc 600Vdc Rated DC Input Voltage MPPT Range 200~850Vdc 450~850Vdc Full Load DC Voltage Range 36+36+36+36(A) PV Input Current 55+55+55+55(A) Max. PV Isc No.of MPP Trackers No. of Strings Per MPP Tracker Rated AC Output Power 50 KW Max. AC Output Power 55 KW AC Output Rated Current 72.5 A Max. AC Current 79.7 A Rated AC Voltage 220/380,230/400 Vac (-20%~+15%) AC Wiring Mode 3I +N+PF Rated AC Frequency 50 /60 Hz (45~55Hz/55~65Hz) THDI <3% (At Rated Power) 0.8(Leading) to 0.8(Lagging) Power Factor NTS & UNE217001 & UNE217002、CEI 0-21、NRS 097-2-1、NC RFG(Poland)、 **Grid Regulation** VDE 4105、G99、EN 50549-1、EN 50549-1+Netherlands Safety Regulation EN 62477-1、IEC 62109-1/-2 IEC/EN 61000-6-2/4、EN/IEC 61000-3-11/12 EMC Net Weight Gross Weight 98.4KG 940\*582\*340MM **Product Dimension** 1110\*770\*463MM Package Dimension Protection Degree IP65 -25 to 60°C(> 50°C Derating) Operating Temperature Range Cooling Smart Cooling Communication with BMS RS485,CAN Monitor Module WiFi/GPRS Installation Style Wall-mounted 10 Years Warranty  ${}^{\star}\mathsf{Refer}\,\mathsf{to}\,\mathsf{Felicitysolar's}\,\mathsf{Warranty}\,\mathsf{Policy}\,\mathsf{for}\,\mathsf{applicable}\,\mathsf{conditions}.$ ----- Communication IVGM50KHP3G1





# SOLAR BATTERY Series

# LiFeP04 Battery Pack

Low-voltage

High-voltage

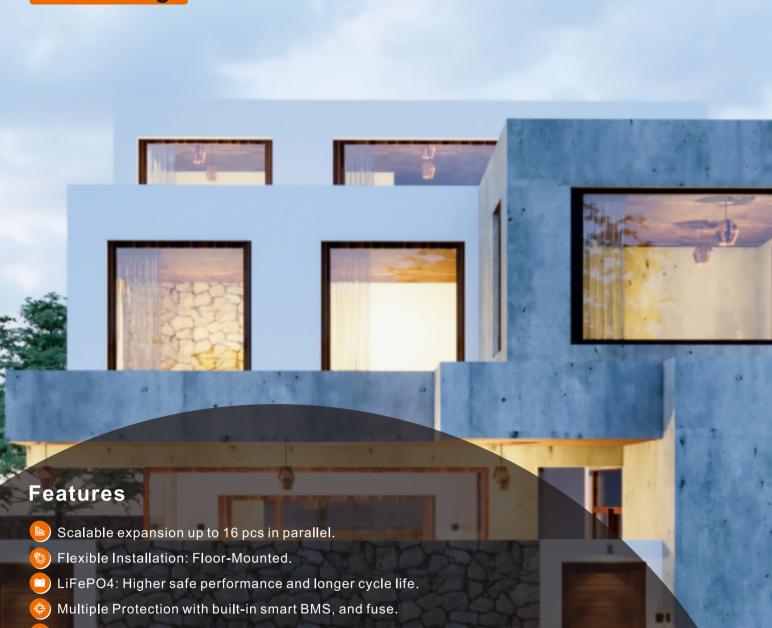
# Lead-acid Battery

**GEL** Battery

**OPzV Battery** 

### **LiFePO4 Battery Pack**

Low-voltage FLA Series



- Compatible with leading inverter brands.
- (S) Up to 5-year long warranty.



Model	FLA12100	FLA12200	FLA12300		
Battery Type		LiFePO4			
Nominal Energy	1.28kWh	2.56kWh	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		
[1] May Continuous Chargo/Dischargo Current is A	#				

 $<sup>\</sup>label{eq:maxcontinuous} \textbf{(1)} \ \textbf{Max.} \ \textbf{Continuous Charge/Discharge Current is Affected by Temperature and SOC.}$ 



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-Mounted				
Protection	Built-in Smart BMS, Breaker, 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

<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

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

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



FLA48100	FLA48200	FLA48200-P	FLA48230	FLA48250
		LiFePO4		
5.12kWh	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	0%DOD,70%EOL)	
		0°C~+55°C		
		-20°C~+55°C		
		LCD+LED		
Wall-Mounted / Floor-Mounted				
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
	5.12kWh 51.2V 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	5.12kWh 10kWh 51.2V 51.2V 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)	LiFePO4  5.12kWh 10kWh 10.5kWh  51.2V 51.2V 51.2V  44.8-57.6V 44.8-57.6V 44.8-57.6V  ≤100A ≤120A ≤150A  ≤5,000W ≤6,000W ≤7,500W  150A 150A 200A  7,500W 7,500W 10,000W  Max. 15 pcs in Parallel(150kWh) in Parallel(157.4kWh)  ≥95%  RS485/CAN  IP21  ≥6000 Cycles (25°C±2°C,0.5C/0.5C,900)  0°C~+55°C  -20°C~+55°C  LCD+LED  Wall-Mounted / Floor-Mound Built-in smart BMS, Breaker, 7 Years  UN38.3、CE-EMC、IEC 62619 CB  48KG 68KG 92KG  55KG 88KG 115.6KG  663X400X178MM 735X433X188MM 783X450X274MM	LiFePO4         5.12kWh       10kWh       10.5kWh       11.8kWh         51.2V       51.2V       51.2V       51.2V         44.8-57.6V       44.8-57.6V       44.8-57.6V       44.8-57.6V         4100A       ≤120A       ≤150A       ≤150A         ≤5,000W       ≤6,000W       ≤7,500W       ≤7,500W         150A       150A       200A       200A         7,500W       7,500W       10,000W       10,000W         Max. 15 pcs in Parallel(150kWh)       Max. 15 pcs in Parallel(157.4kWh)       Max. 15 pcs in Parallel(157.4kWh)       IP21         > 84845/CAN       IP21       ≥ 6000 Cycles (25°C±2°C,0.5C/0.5C,90%DOD,70%EOL)       0°C~+55°C         LCD+LED         Wall-Mounted / Floor-Mounted         Built-in smart BMS, Breaker, Fuse         7 years         UN38.3、CE-EMC、IEC 62619       UN38.3、CB         1EC 62619       UN38.3、CB         48KG       68KG       92KG         55KG       88KG       115.6KG       115.6KG         663X400X178MM       735X433X188MM       783X450X274MM       783X450X274MM

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



Built-in WiFi/Bluetooth for Remote Monitoring



Support Wall Mounted Installation



Aerosol Fire Extinguishing System



Wide Inverter Compatibility



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

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



Model	FLA48280 FLA48300				
Battery Type	LiFe	P04			
Nominal Energy	14.3kWh	15kWh			
Nominal Capacity	280Ah	300Ah			
Nominal Voltage	51.	.2V			
Operating Voltage	44.8-	57.6V			
Recommend Charge/Discharge Current	12	0A			
Max. Continuous Charge/Discharge Current[1]	15	0A			
Peak Charge/Discharge Current(15s)	20	0A			
Scalability	Max. 15 pcs in Parallel(215kWh)	Max. 15 pcs in Parallel(225kWh)			
Depth of Discharge(DOD)	≥9	5%			
Display Type	LCD				
Protection Degree	IP21				
Working Tomporature Dongo	Charge: 0°C~55°C				
Working Temperature Range	Discharge: -20°C~55°C				
Storge Temperature Range	0°C~+35°C				
Humidity	5%~95%				
Altitude	≤ 2000m				
Communication	RS485/CAN				
Cycle Life	$\geq$ 6000 Cycles (25°C±2°C,0.5C,0.5C,90%DOD,70%EOL)				
Installation	Wall-Mounted / Floor-Mounted				
Protection	Built-in Smart BMS, Breaker, Fuse				
Warranty Period	7 Years				
Certification	UN38.3 UN38.3、CE-EMC、IEC 62619				
Product Weight	135KG				
Package Weight	160KG				
Product Dimension	480X1100	0X300MM			
Package Dimension	1150X635	5X498MM			
[1] May Continuous Chargo/Dischargo Current is Affor	ated by Tamparature and COC				

<sup>[1]</sup> Max. Continuous Charge/Discharge Current is 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



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

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



FLA48500
LiFePO4
25kWh
51.2V
44.8-57.6V
≤200A
≤10000W
300A
15000W
≥95%
Max.15 pcs in Parallel(375kWh)
RS485/CAN
IP21
≥6,000 Cycles
0°C-55 °C
-20°C-60 °C
LCD+LED
Floor-Mounted
Built-in Smart BMS, Breaker, Fuse
7 Years
UN38.3、CE-EMC、IEC 62619
218KG
248KG
718X380X990MM
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>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			LiFePO4						
Module Nomina	Fnergy		5.12kWh						
Module Nomina					100				
Module Nomina					51.				
Number of Batte		1	2	3	4	5	6	7	8
System Nominal	•	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
System Nominal		J.12KWII	10.24KWII	13.30KWII	51.		30.72KWII	33.04KWII	40.90KWII
System Operatir	0				44.8-				
	arge/Discharge Current	50A	100A	1504			2004	350A	4004
	Charge/Discharge Current[1]	50A 60A		150A	200A	250A	300A		400A
	0 . 0		120A	180A	240A	300A	360A	400A	400A
	charge Current(15S)	100A	200A	300A	400A	500A	600A	700A	800A
Scalability	(DOD)				Max. 8 pcs				
Depth of Dischar	ge(DOD)	≥95%							
Display Type		Control Module: LCD/Battery Module: LED*4							
Protection Level		IP21 Charge: 0°C~55°C							
Working Temper	rature Range				Discharge:				
Storge Tempera	ture Range				0°C~+				
Humidity	O .				5%~				
Altitude		\$70°9370 ≤ 2000M							
Communication					RS485				
Cycle Life[2]						Cycles			
Installation				W	all-Mounted/		ed		
Protection			Built-in Smart BMS, Breaker, Fuse						
Warranty Period					10 Y				
Certification		UN38.3、CE-EMC、IEC 62619、CB							
certification	Product Weight Approximate	46KG							
Control Module	Package Weight Approximate	60KG							
FLS48100SCG1 Product Dimension		600X450X180 MM							
	Package Dimension	712X562X333 MM							
	Product Weight Approximate								
Dattamett - ded	Package Weight Approximate					KG			
Battery Module FLS48100SMG1	Product Dimension				600X450				
	Package Dimension				712X562				
[1] May Continu	ious Charge/Discharge Current	ic Affactad b	Tomporot	ro and COC	112/302	A 20 14/14/1			

<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**



Model	LPBF48250	LPBF48300	LPBF48300-II	LPBF48350	
Battery Type		LiF	ePO4		
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	B5/CAN		
Protection Degree		II	P21		
Cycle Life[2]		≥6,00	0 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 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	

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

718x450x1112MM

#### **Product Display**

Package Dimension



Real-time status via LCD Display



718x450x1112MM

Support 6 Pcs in Parallel



718x450x1112MM

Longer Lasting LiFePO4 Battery



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



718x450x1112MM

LPBF48300-II Wire Ports

<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	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>Refer to Felicitysolar's Warranty Policy for applicable conditions.



Model		FLH48100UG1				
Battery Type			LiFePO4			
Nominal Energy		5.12KWh				
Nominal Voltage			51.2V			
Nominal Capacity	1		100Ah			
Number of Batter	y Modules	4(Min)	8	12		
System Nominal I	Energy	20.48kWh	40.96kWh	61.44kWh		
System Nominal \	Voltage	204.8V	409.6V	614.4V		
System Operating	gVoltage	192-230.4V	384-460.8V	576-691.2V		
Recommend Chai	rge/Discharge Current		50A			
Max. Continuous	Charge/Discharge Current[1]		100A			
Peak Charge/Disc	harge current(15S)		120A			
Depth of Discharg	ge(DOD)		≥ 95%			
Display Type			LED+LCD(Touch)			
IP Rating of Enclo	sure		IP21			
OneratingTowns	ratura Danga		Charge:0~+55°C			
Operating Tempe	rature kange		Discharge:-20°C~+55°C			
Storge Temperati	ure Range	0°C~+35°C				
Humidity		5%~95%		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、CE	3、CE-EMC、IEC 62619、EN IEC 620	40-1		
	Product Dimension	482.6x565x150MM				
Control Module	Package Dimension		687x562x269MM			
FLH48100UCG1	Product Weight Approximate		10.3KG			
	Package Weight Approximate		16.7KG			
	Product Dimension		482.6x565x131MM			
Datta Madula	Package Dimension		687x562x250MM			
Battery Module FLH48100UMG1	Product Weight Approximate	41.3KG				
	Package Weight Approximate	45KG				
	Battery Designation[3]	IFpP/54/150/120/[(1P16S)NS]M/-20+50/95				
	Product Dimension	560×590×2137.5MM (13th Floor)				
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
Inverter Parameters	Al100-5048
Rated Output Power	5000VA
·	5000W
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	
Nominal Input Voltage	230Vac
Nominal Output Voltage	230Vac
Input Voltage Range	90~280Vac
Max. Charge Current	100A
Solar Charging & Grid Charging	
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	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
•	49.5KG
	DAC.EP
	CC0V420V100VII
Gross Weight Product Dimension	660X420X180MM
	822X522X278MM

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



Model	AI100-8048 ESS		
Investor Parameters	Al100-8048		
Inverter Parameters			
Rated Output Power	8000VA		
Naminal DC Innut Valtana	8000W		
Nominal DC Input Voltage	48V		
Nominal Input Voltage	230Vac		
Nominal Input Frequency	50Hz/60Hz(Auto detection)		
Parallel Capability	Yes, up to 6 units		
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	AI100-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			
Gross Weight	45KG		
	49.5KG		
Product Dimension	660X420X180MM		
Package Dimension [1] Recommend Charge/Discharge Current/Power is Affected by Tem	822X522X278MM		
A RECOMMEND CHAIRE/DISCHARGE CHITTENT/POWER IS Affected by Lem	perature and SOC.		

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



Model	FLS-MES215AF-S	
DC		
Cell	LFP 280Ah	
Number of MPPT	2	
MPPT Operating Voltage/Full Load Voltage	250~ 850/450 ~850	
Protection	Circuit Braker and Fuse	
Pack Capacity /Arrangement	14.336kWh/1P16S	
Maximum PV Input Voltage/Power	1000V / 120kW	
System Capacity / Arrangement	215kWh/1P240S	
Nominal Current	140A	
Charge/Discharge Rate	≤0.5Cp	
DC Efficiency	94%	
AC (On Grid)		
Nominal Output 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)		
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%&0.5P (STD)	
Communication	RS485, CAN, TCP/IP	
Fire Prevention	Fk5112	
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 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	
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** FSOLAR 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

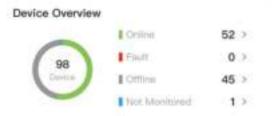
- Track daily, monthly, yearly and cumulative energy generation of all systems and individual units.
- Access battery pack details, including current, voltage, SOC, etc.





#### 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.



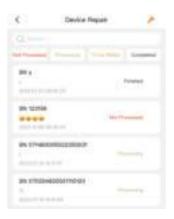
#### 3. Historical Data Analysis

- 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.





#### 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**





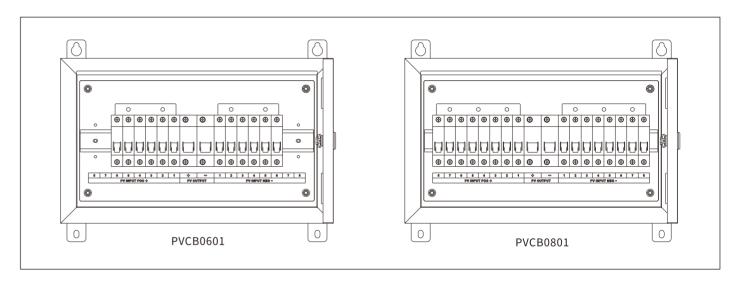






Model	PVCB0601	PVCB0801			
Max. Imum Input Voltage	500V	500V			
Max. Imum Number of Input Paths	6	8			
Max. Imum Allowable Input Current of Branch	15A	15A			
Max. Imum Output Current	100A	100A			
Lightning Protection Device	Surge Switch				
Shell Material	Metal Chassis				
Input Cable Diameter	4~8mm²				
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	430×260×118MM			
Package Dimension(MM)	487×337×179MM	487×337×179MM			

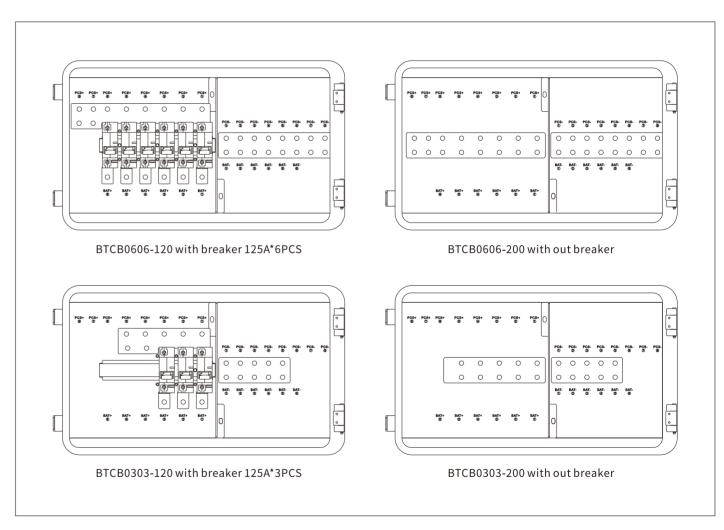
#### Internal Schematic Diagram of the Product





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













