



Make life full of hope



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SOLAR ENERGY STORAGE SOLUTIONS

Make life full of hope, make the world better

European Version

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ABOUT US

Guangzhou Felicity Solar Technology Co., Ltd.

Founded in 2007 and headquartered in Guangzhou, China, we employ over 2,000 staff and occupy 85,000+ square meters. We integrate R&D, manufacturing, marketing, and sales, and have established localized warehousing networks, after-sales service centers, and overseas branches. We are a trusted provider with 19 years of industry expertise, offering off-grid and hybrid solar energy storage solutions for residential, commercial, and industrial needs.



VR Factory Tour

With a R&D team of over 400 professionals, a 3,000 sqm R&D center, and more than 10% of annual investment dedicated to technology development, we had secured over 170 patents in core technologies. Through our 50+ global branches, we connect with users across 150+ countries and areas, delivering a comprehensive product line that includes inverters, LiFePO4 batteries, 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.



19

years Industry Expertise

170+

Patented Technologies

50+

Overseas Branches

150+

Countries & Regions Market

10%+

Technical Investment

400+

R&D Teammates

FELICITYSOLAR



WHY CHOOSE US



Product Reliability

Regional Compatibility: adapted to different grid voltages across regions.

Functions: smart management, easy for after-sales servicing, simplified system setup.

Performance: high stability, safety, durability, and strong environmental adaptability.



Standardized Manufacturing

Smart Production: high-efficiency production lines with automated equipments.

Standardized Testing – strict testing procedures for product reliability.

Quality Management – comprehensive quality control guarantees high-standard products.



Pricing Policy

Stable Pricing – consistent pricing to support long-term cooperation.

Price Protection – safeguarding partner interests in the market.

Regional Protection – ensuring fair market competition within designated areas.



Local Service

Service Centers – fast, efficient, and professional after-sales support.

Offline Stores – face-to-face consultation and system recommendations.

Warehouses – sufficient inventory for fast and convenient delivery.

SUPERIORITY



Off-grid High-frequency Solar Inverter

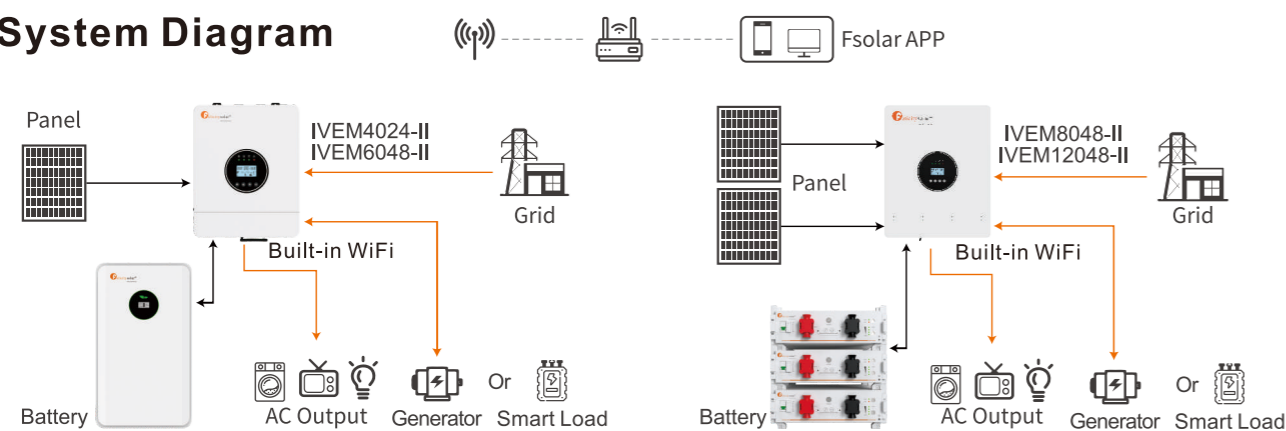
IVEM-II Series | IVEM4024/6048/8048/12048-II



Features

- Built-in WiFi for mobile monitoring (APP is required).
- Support parameters setting via LCD screen (input voltage/charging current/charge mode).
- Supports up to 12 units in parallel (6K) / 6 units (8K & 12K) in parallel (Battery must be connected).
- Supports generator input port reconfiguration to smart output port with customizable duration.
- Compatible with mains voltage or generator power.
- Built-in MPPT solar charge controller.
- Lithium battery activation function.
- Inverter running without battery.
- Auto restart while AC is recovering.
- Cold start function.

System Diagram



Specifications

Model	IVEM4024-II	IVEM6048-II	IVEM8048-II	IVEM12048-II
Line Mode Specifications				
Rated Output Power(VA)	4000VA	6000VA	8000VA	12000VA
Rated Output Power(W)	4000W	6000W	8000W	12000W
Nominal DC Input Voltage	24V	48V	48V	48V
Nominal Input Voltage	230Vac			
Max. AC Input Voltage	280Vac			
Nominal Input Frequency	50Hz / 60Hz (Auto Detection)			
Pass Through Without Battery	Yes			
Utility Charging Mode Specifications /Generator Charging Mode Specifications				
Nominal Input Voltage	230Vac			
Input Voltage Range	90-280Vac			
Max. Charge Current	120A	120A	150A	240A
Charge Current Regulation	10-120A (Adjustable Unit is 1A)	10-120A (Adjustable Unit is 1A)	10-150A (Adjustable Unit is 1A)	10-240A (Adjustable Unit is 1A)
Over Charge Protection	Yes			
Solar Charging & Grid Charging or GEN Charging				
Max.PV Open Circuit Voltage	500V			
PV Voltage Working Range	60V-500V	90V-450V	90V-450V	90V-450V
Max. Input Power	6000W	7500W	10000W(5000W for single PV)	15000W(7500W for Single PV)
Max. Solar Charging Current	120A	120A	150A	240A
Max. Charging Current(PV+Grid or GEN)	120A	120A	150A	240A
Max. Input Current	27A	27A	20A X 2(MAX 40A)	27A X 2(MAX 54A)
Min. Startup Voltage	60V	95V	100V	100V
Inverter Mode Specifications				
Output Voltage Waveform	Pure Sine Wave			
Nominal Output Voltage	230Vac+5%			
Nominal Output Frequency(Hz)	50±0.3Hz/60Hz±0.3Hz(Adjustable)			
Parallel Capability	No	Yes, Up to 12 Units	Yes, Up to 6 Units	
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)	10.4KG	12.5KG	23.7KG	26.8KG
Product Dimension(MM)	430*310*120MM	420*335*142MM	607*464*141MM	634*476*141MM
Package Dimension(MM)	507*387*197MM	512*417*216MM	712*582*259MM	726*594*258MM
Certification	CE-EMC、IEC 62109-1/2	CE-EMC、IEC 62109-1/2	CE-EMC、IEC 62109-1/2	CE-EMC、IEC 62109-1/2

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

Off-grid High-frequency Solar Inverter

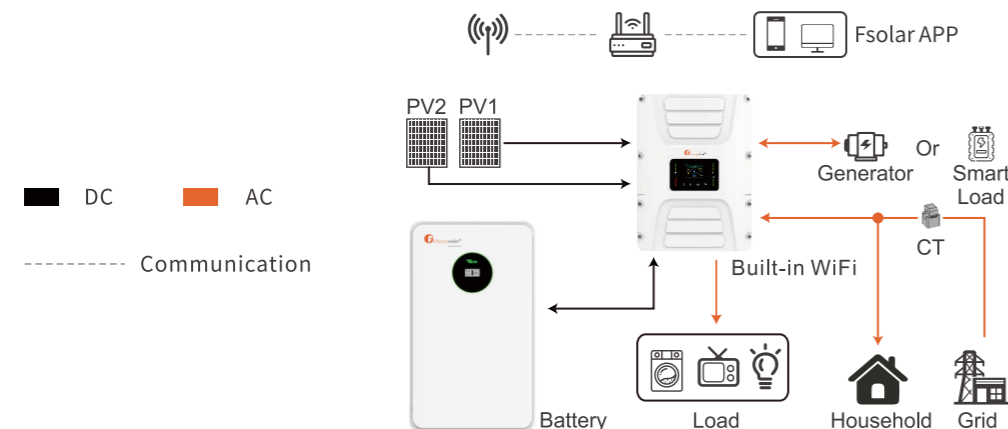
IVAM Series | IVAM6048~12048P1G1



Features

- Build-in WiFi for real-time monitoring.
- Build-in 2 strings of MPPT trackers.
- Programmable multiple operation modes: on grid, off grid and UPS.
- Compatible with utility power or generator power.
- IP65 protection level.
- Max. 12 units in parallel
- LCD touchscreen for easy parameter and working mode settings.
- Guaranteed safety with multiple protections.
- Equipped with a power-limiting function to avoid grid overflow.
- Auto restart while AC is recovering.

System Diagram



Specifications

Model	IVAM6048P1G1	IVAM8048P1G1	IVAM10048P1G1	IVAM12048P1G1
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range(V)	40~60			
Max. Charging Current/Max. Discharging Current(A)	135	190	210	250
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
Number of Battery Input	1		2	
PV String Input Data				
Max. PV Access Power(W)	12000	16000	20000	24000
Max. PV Input Power(W)	9600	12800	16000	19200
Max. PV Input Voltage(V)	500			
Start-up Voltage(V)	120			
PV Input Voltage Range(V)	90~500			
MPPT Voltage Range(V)	90~425			
Full Load MPPT Voltage Range(V)	300~425	200~425	200~425	200~425
Rated PV Input Voltage(V)	370	370	370	370
Max. Operating PV Input Current(A)	20+20	27+27	32+32	32+32
Max. Input Short-Circuit Current(A)	27+27	40+40	48+48	48+48
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1	2/2+2	2/2+2	2/2+2
AC Output Data				
Rated AC Output Power(VA/W)	6000	8000	10000	12000
Max. AC Output Power(VA/W)	6000	8000	10000	12000
Max. AC Output Current(A)	26.1	34.8	43.5	52.2
Peak Power(W)	2 Times of Rated Power, 10s			
Rated Output Voltage(V)	230			
Output Type	L+N+PE			
Rated Output Frequency	50Hz/60Hz			
Output Voltage Waveform	Pure Sine Wave			
AC Input Data(Grid and Generator)				
Max. Input Power to Battery(W)	6000	8000	10000	12000
Rated Input Voltage(V)	230			
Rated Input Frequency	50Hz/60Hz			
Grid Input Current(A)	35	50	50	60
Generator Input Current(A)	35	50	50	60
Equipment Protection				
AC Output Overvoltage Protection	Yes			
AC Output Short Circuit Protection	Yes			
AC Output Overcurrent Protection	Yes			
DC Polarity Reverse Connection Protection	Yes			
Thermal Protection	Yes			
DC Terminal Insulation Impedance Monitoring	Yes			
DC Component Monitoring	Yes			
Ground Fault Current Monitoring	Yes			
Arc fault circuit interrupter (AFCI)	Optional			
Power Network Monitoring	Yes			
Earth Fault Detection	Yes			
DC Input Switch	Yes			
Overvoltage Load Drop Protection	Yes			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
General Data				
Display	LCD+LED			
Communication Interface	RS485, CAN			
Monitor Mode	WIFI/LAN (Optional)			
General Data				
Operating Temperature Range	-40 to +60°C, >45°C Derating			
Ingress Protection (IP) Rating	IP65			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Warranty	5 Years			
Type of Cooling	Intelligent Air Cooling			
Net Weight	13.5kg	14.5kg	21.6kg	21.6kg
Product Dimension	435x320x183mm	456.5x362x183.2mm	594x385x203mm	594x385x203mm
Package Dimension	532x412x270mm	552x447x270mm	752x507x348mm	752x507x348mm
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

*Disclaimer: This product is currently in pilot production. Final specifications, design, and features may differ from those presented here.
*Refer to Felicitysolar's Warranty Policy for applicable conditions.

Low-voltage Hybrid Solar Inverter

IVGM Series | IVGM3.6~6KLP1G2

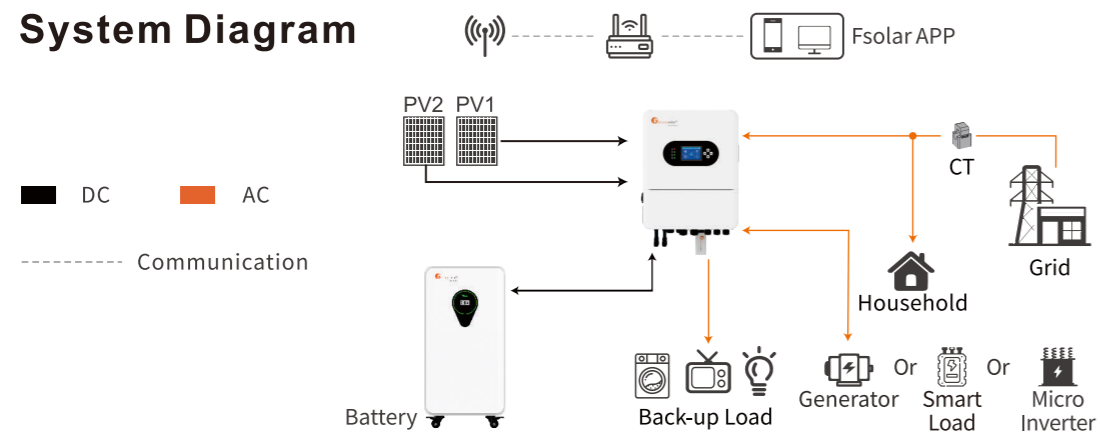
Single Phase



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 90A~135A.
- Prevent grid overload with built-in limit function while seamlessly switching between battery and grid supply within 10ms for uninterrupted power.
- IP65 protection level.
- Customizable battery charge / discharge scheduling.
- Optimize energy use with Time-of-Use, Sell-First, and Zero Export options to maximize savings and efficiency.
- Built-in dual MPPT solar charge controllers, 1.6 times over configuration capacity.
- Programmable generator port, support smart load and micro inverter access.
- Support parallel operation with single-phase, and three-phase.
- Max. 6 units in parallel.

System Diagram



Specifications

Model	IVGM3.6KLP1G2	IVGM5KLP1G2	IVGM6KLP1G2
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range	40 V~60 V		
Max. Charging and Discharging Current	90 A/90 A	120 A/120 A	135 A/135 A
Charging Strategy for Li-ion Battery	Self-adaption to BMS		
Number of Battery Input	1		
PV String Input Data			
Max. PV Access Power	7200 W	10000 W	12000 W
Max. PV Input Power	5760 W	8000 W	9600 W
Max. PV Input Voltage	500 V		
Start-up Voltage	125 V		
MPPT Voltage Range	150 V-425 V		
Rated PV Input Voltage	370 V		
Max. Input Short-Circuit Current	27 A+27 A		
Max. Operating PV Input Current	18 A+18 A		
No. of MPP Trackers/No. of String Per MPP Tracker	2/1+1		
Grid Data			
Rated AC Input/Output Active Power	3600 W	5000 W	6000 W
Max. AC Input/Output Apparent Power	3960 VA	5500 VA	6600 VA
Peak Power (off-grid)(W)	2 Times of Rated Power, 10s		
Rated AC Input/Output Current	16.4 A/15.7 A	22.8 A/21.8 A	27.3 A/26.1A
Max. AC Input/Output Current	18 A/17.3 A	25 A/24 A	30 A/28.7 A
Max. Continuous AC Passthrough (grid to load)	35 A	35 A	40 A
Rated Input/Output Voltage/Range	220V/230 0.85Un-1.1Un		
Grid Connection Form	L+N+PE		
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz		
Efficiency			
Max. Efficiency	97.6 %		
Euro Efficiency	96.5%		
MPPT Efficiency	> 99 %		
Equipment Protection			
DC Reverse Polarity Protection	Integrated		
AC Output Overcurrent Protection	Integrated		
Thermal Protection	Integrated		
AC Output Overvoltage Protection	Integrated		
AC Output Short Circuit Protection	Integrated		
DC Component Monitoring	Integrated		
Arc Fault Circuit Interrupter (optional)	Integrated		
Anti-islanding Protection	Integrated		
DC Switch	Integrated		
Insulation Impedance Detection	Integrated		
Residual Current Detection	Integrated		
Surge Protection Level	Integrated		
Interface			
Communication Interface	RS485/RS232/CAN		
Monitor Mode	WIFI/Bluetooth		
General Data			
Operating Temperature Range	-40°C~+60°C, >45°C Derating		
Protection Degree	IP65		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Net Weight	19.8 KG		
Gross Weight	24.5 KG		
Product Dimension	470x376x250.75 MM		
Package Dimension	598x454x348 MM		
Warranty	10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy		
Type of Cooling	natural cooling		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

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

Low-voltage Hybrid Solar Inverter

IVGM Series | IVGM8~16KLP1G1

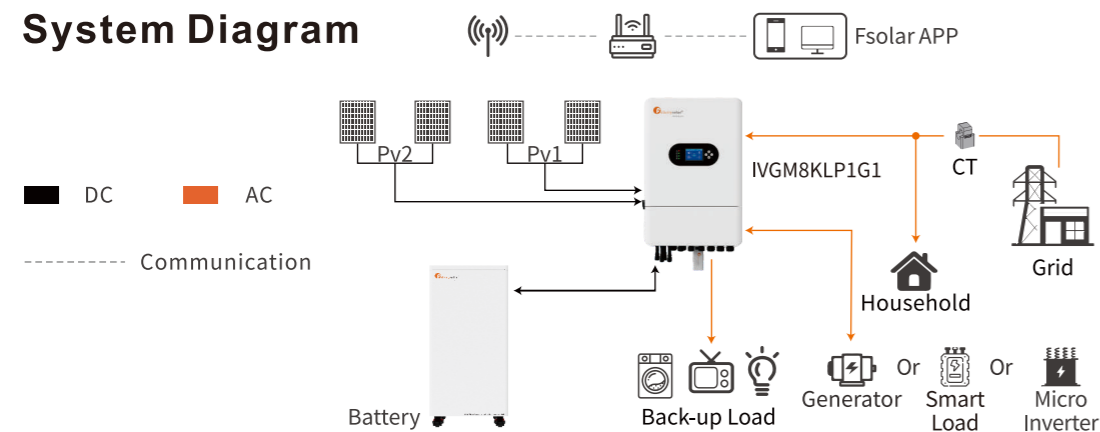
Single Phase



Features

- Configurable parameters and working mode by LCD touch screen.
- Supporting WiFi monitoring and Fsolar smart cloud monitoring system.
- Supports high current for battery charging/discharging.
- Prevent grid overload with built-in limit function while seamlessly switching between battery and grid supply within 10ms for uninterrupted power.
- IP65 protection level.
- Customizable battery charge / discharge scheduling.
- Optimize energy use with Time-of-Use, Sell-First, and Zero Export options to maximize savings and efficiency.
- Built-in multiple MPPTs for enhanced PV input capability.
- Programmable generator port, support smart load and micro inverter access.
- Max. 6 units in parallel.

System Diagram



Specifications

Model	IVGM8KLP1G1	IVGM12KLP1G1	IVGM14KLP1G1	IVGM16KLP1G1
Battery Input Data				
Battery Voltage Range	40V-60V			
Max. Charging and Discharging Current	190A/190A	220A/220A	250A/250A	290A/290A
Max. Charging and Discharging Power	8000W	12000W	14000W	16000W
Battery Type	Li-Ion /Lead-acid			
DC Input Data(PV side)				
Max. Recommended PV Power	12000W	24000W	28000W	32000W
Max. PV Voltage	500V		500V	
Start Voltage	100V		125V	
MPPT Voltage Range	120V-425V		150V-425V	
Nominal Voltage	380V		370V	
PV Input Current	26A+26A		26A+26A+26A	
Max. Shorted Current	44A+44A		44A+44A+44A	
Number of MPP Trackers / Strings Per MPP Tracker	2/2		3/2+2+2	
Grid Data				
Nominal Input Voltage	220/230 V AC (Single Phase)		3L/N/PE 220/380Va.c., 230/400Va.c.	
Nominal Grid Frequency	50/60Hz		50/60Hz	
Max. AC Output Power	8800W	13200W	15400W	17600W
AC Output/Input Rated Current	34.8A	18.2A/17.4A	21.3A/20.3A	24.3A/23.2A
Max. Output Current	38.3A	19.2A	22.4A	25.6A
Max. Continuous AC Passthrough	50A	45A	70A	70A
AC Output Data (Back Up)				
Rated Output Power	8000W	12000W	14000W	16000W
Max. Output Current	40A	19.2A	22.4A	25.6A
Rated AC Output Voltage	220/230 V AC (Single Phase)		3L/N/PE 220/380Va.c., 230/400Va.c.	
Rated AC Output Frequency	50/60Hz		50/60 Hz	
Protection (IVGM8KLP1G1)		Protection (IVGM12~16KLP1G1)		
Output Over Current Protection	Integrated	DC Reverse Polarity Protection		Integrated
Output Over Power Protection	Integrated	AC Output Overcurrent Protection		Integrated
Output Short-Circuit Protection	Integrated	Thermal Protection/Anti-islanding Protection		Integrated
Anti-islanding Protection	Integrated	AC Output Overvoltage Protection		Integrated
GFCI Protection	Integrated	AC Output Short Circuit Protection		Integrated
Arc Fault Circuit Interrupter(AFCI)	Integrated	DC Component Monitoring		Integrated
Insulation Resistor Detection	Integrated	Arc Fault Circuit Interrupter (optional)		Integrated
		DC Switch/Insulation Impedance Detection		Integrated
		Residual Current Detection		Integrated
		Surge Protection Level (TYPE II(DC), TYPE II(AC))		Integrated
General Data				
Operating Temperature Range	-25°C~60°C, >45°C Derating		-40 to +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 (Polen), EN 50549-1/-10+Niederlande, PPDS, NTS & UNE217001 & UNE217002, UL1741		IEC61727, IEC62116, NRS097	
Safety Regulation & EMC	IEC 62109-1/-2, IEC/EN 61000-6-1/2/3/4, EN/IEC 61000-3-11/12		IEC/EN61000-6-1/2/3/4, IEC/EN62109-1, IEC/EN62109-2	
Net Weight	33,5 kg		53 kg	
Gross Weight	40,5 kg		63,6 kg	
Product Dimension	430*654*243 mm		760*450*285 mm	
Package Dimension	787*547*358 mm		895*570*419 mm	

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

Low-voltage Hybrid Solar Inverter

IVGM Series | IVGM5~12KLP3G2

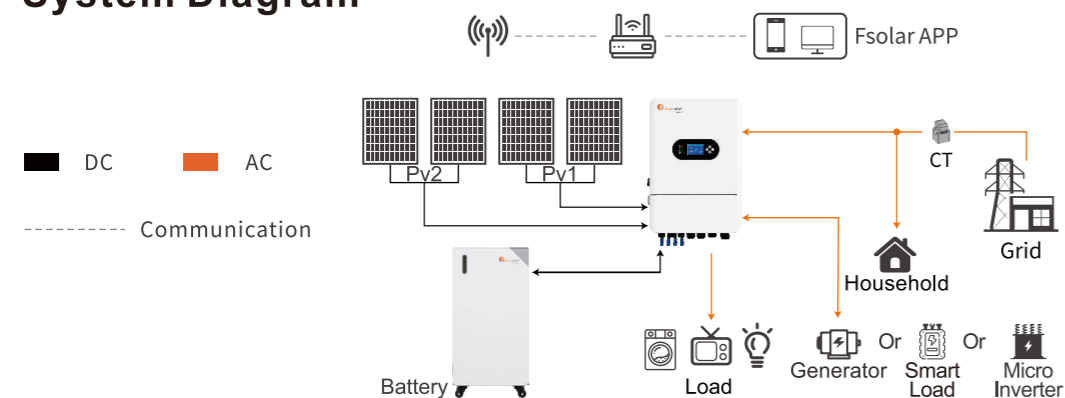
Three Phase



Features

- Supports WiFi monitoring and Fsoler smart cloud monitoring system.
- Supports 100% unbalanced three-phase output for flexible load connection.
- LCD touch screen for easy parameter and mode settings.
- Fit for outdoor installation with IP65 protection level.
- Uninterrupted power with EPS function.
- Customizable battery charge / discharge scheduling.
- Compatible with generator, microgrid, and smart load port.
- Time of Use function to save on electricity cost.
- 4-channel PV, 2-channel MPPT, 1.6 times overconfiguration capacity.
- Max. 10 units in parallel.
- Auto restart while AC is recovering.

System Diagram



Specifications

Model	IVGM5KLP3G2	IVGM6KLP3G2	IVGM8KLP3G2	IVGM10KLP3G2	IVGM12KLP3G2
Battery Input Data					
Battery Type	Li-Ion / Lead-acid				
Battery Voltage Range	40V~60V				
Max. Charging/Discharging Current	120A	135A	190A	210A	240A
PV String Input Data					
Max. PV Input Power	7.5kW	9kW	12kW	15kW	18kW
Max. PV Input Voltage	800V				
Start-up Voltage	160V				
MPPT Voltage Rang	200V-650V				
Rated DC Input Voltage	550V				
Full Load DC Voltage Range	250~650V			350~650V	
Max. Operating PV Input Current	20+20(A)			26+26(A)	
Max. Input Short-Circuit Current	30+30(A)			39+39(A)	
No. of MPP Trackers /No. of Strings MPP Tracker	2/2+2				
AC Input/Output Data					
Rated AC Input/Output Active Power	5kW	6kW	8kW	10kW	12kW
Max. AC Input/Output Apparent Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power (Off-grid)	2 Times of Rated Power, 10s				
Rated AC Input/Output Current	7.3A	8.7A	11.6A	14.5A	17.4A
Max. AC Input/Output Current	9.0A	9.7A	12.6A	16.0A	19.2A
Max. Continuous AC Passthrough (Grid to Load)	45A				
Max. Output Overcurrent Protection	52A				
Rated Input/Output Voltage/Range	220/380,230/400Vac(-20%~+15%)				
AC Wiring Mode	3L+N+PE				
Rated Input/Output Grid Frequency/Range	50/60 Hz(45~55Hz/55~65Hz)				
Equipment Protection					
DC Polarity Reverse Connection Protection	Yes				
AC Output Overcurrent Protection	Yes				
AC Output Overvoltage Protection	Yes				
AC Output Short Circuit Protection	Yes				
Thermal Protection	Yes				
DC Terminal Insulation Impedance Monitoring	Yes				
DC Component Monitoring	Yes				
Ground Fault Current Monitoring	Yes				
Arc Fault Circuit Interrupter (AFCI)	Yes				
Power Network Monitoring	Yes				
Island Protection Monitoring	Yes				
Earth Fault Detection	Yes				
DC Input Switch	Yes				
Overvoltage Load Drop Protection	Yes				
Residual Current (RCD) Detection	Yes				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Certification and Standards					
Grid Regulation	NRS 097-2-1, VDE4105, EN50549-1, AS 4777.2, GB / T 34120, GB / T 34133, GB / T 34129				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
General Data					
Net Weight(KG)	37.8KG				
Gross Weight(KG)	47.4KG				
Product Dimension(MM)	634x444.5x255.2MM				
Package Dimension(MM)	771x526x398MM				
Protection Degree	IP65				
Communication with BMS	RS485/CAN				
Monitor Module	WiFi/4G				
Warranty	10 Years				
	The Warranty Period Donende tho Final Tnetallation Sito of Inverter More Info Please Refer to Warranty Policy				

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

Low-voltage Hybrid Solar Inverter

IVGM Series | IVGM15KLP3G1~IVGM20KLP3G1

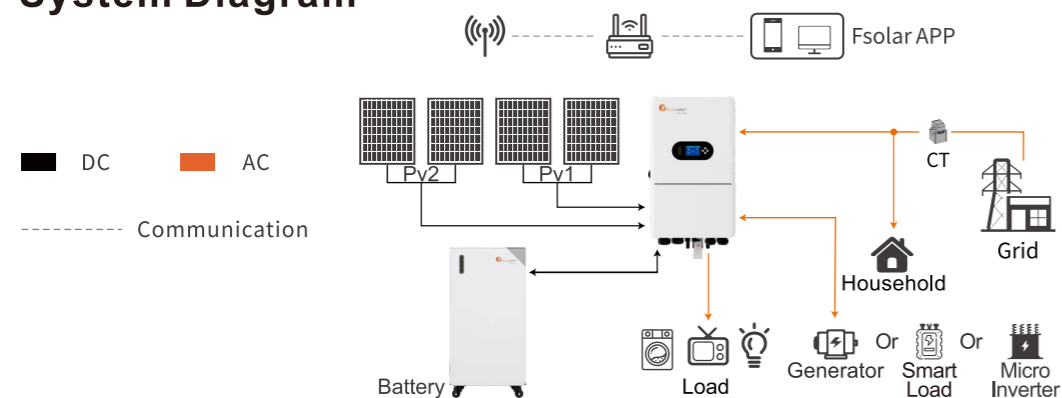
Three Phase



Features

- Supports WiFi monitoring and Fsolar smart cloud monitoring system.
- Supports 100% unbalanced three-phase output for flexible load connection.
- LCD touch screen for easy parameter and mode settings.
- Fit for outdoor installation with IP65 protection level.
- Uninterrupted power with EPS function.
- Customizable battery charge / discharge scheduling.
- Compatible with generator, microgrid, and smart load port.
- Time of Use function to save on electricity cost.
- Battery charge and discharge current up to 350A.
- 4-channel PV, 2-channel MPPT, 1.6 times overconfiguration capacity.
- Max. 10 units in parallel.
- Auto restart while AC is recovering.

System Diagram



Specifications

Model	IVGM15KLP3G1	IVGM16KLP3G1	IVGM18KLP3G1	IVGM20KLP3G1
Battery Input Data				
Battery Type	Li-Ion / Lead-acid			
Battery Voltage Range	40V~60V			
Max. Charging/Discharging Current	280A	300A	330A	350A
PV String Input Data				
Max. PV Input Power	24kW	25.6kW	28.8kW	32kW
Max. PV Input Voltage	800V			
Start-up Voltage	160V			
MPPT Voltage Rang	160V-650V			
Rated DC Input Voltage	550V			
Full Load DC Voltage Range	416V-800V	445V-800V	500V-800V	550V-800V
Max. Operating PV Input Current	36+36(A)			
Max. Input Short-Circuit Current	54+54(A)			
No. of MPP Trackers /No. of Strings MPP Tracker	2/2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power	15kW	16kW	18kW	20kW
Max. AC Input/Output Apparent Power	16.5kVA	17.6kVA	19.8kVA	22kVA
Peak Power (Off-grid)	2 Times of Rated Power, 10s			
Rated AC Input/Output Current	21.8A	23.2A	26.1A	28.9A
Max. AC Input/Output Current	23.9A	25.5A	28.7A	31.9A
Max. Continuous AC Passthrough (Grid to Load)	70A			
Max. Output Overcurrent Protection	92A			
Rated Input/Output Voltage/Range	220/380,230/400Vac(-20%~+15%)			
AC Wiring Mode	3L+N+PE			
Rated Input/Output Grid Frequency/Range	50/60 Hz(45~55Hz/55~65Hz)			
Equipment Protection				
DC Polarity Reverse Connection Protection	Yes			
AC Output Overcurrent Protection	Yes			
AC Output Overvoltage Protection	Yes			
AC Output Short Circuit Protection	Yes			
Thermal Protection	Yes			
DC Terminal Insulation Impedance Monitoring	Yes			
DC Component Monitoring	Yes			
Ground Fault Current Monitoring	Yes			
Arc Fault Circuit Interrupter (AFCI)	Yes			
Power Network Monitoring	Yes			
Island Protection Monitoring	Yes			
Earth Fault Detection	Yes			
DC Input Switch	Yes			
Overvoltage Load Drop Protection	Yes			
Residual Current (RCD) Detection	Yes			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Certification and Standards				
Grid Regulation	NRS 097-2-1, VDE4105, EN50549-1, AS 4777.2, GB / T 34120, GB / T 34133, GB / T 34129			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
General Data				
Net Weight(KG)	48.7KG			
Gross Weight(KG)	60.2KG			
Product Dimension(MM)	750x450x268MM			
Package Dimension(MM)	889x566x397MM			
Protection Degree	IP65			
Communication with BMS	RS485/CAN			
Monitor Module	WiFi/4G			
Warranty	10 Years			
	The Warranty Period Donende tho Final Tnetallation Sito of Inverter More Info Please Refer to Warranty Policy			

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

High-voltage Hybrid Solar Inverter

IVGM Series | IVGM8~25KHP3G3

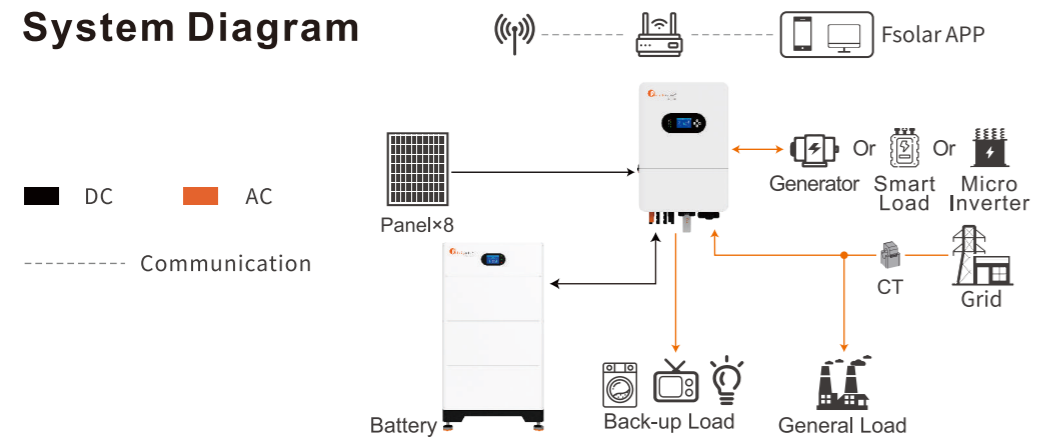
Three Phase



Features

- Configurable parameters and working mode by LCD touch screen.
- Supporting WiFi monitoring and F solar smart cloud monitoring system.
- Prevent grid overload with built-in limit function.
- IP65 protection level.
- Customizable battery charge / discharge scheduling.
- Optimize energy use with Time-of-Use, Sell-First, and Zero Export options to maximize savings and efficiency.
- Built-in dual MPPT solar charge controllers. 1.6 times over configuration capacity.
- Programmable generator port, support smart load and micro inverter access.
- Max. 12 units in parallel.

System Diagram



Specifications

Model	IVGM8KHP3G3	IVGM9K9HP3G3	IVGM10KHP3G3	IVGM12KHP3G3	IVGM15KHP3G3	IVGM20KHP3G3	IVGM25KHP3G3
Battery Input Data							
Battery Voltage Range	160~700Vdc						
Max. Charging and Discharging Current	37A/37A						
Max. Charging and Discharging Power	8kW	9.9kW	10kW	12kW	15kW	20kW	25kW
Battery Type	LFP(LiFePO4)						
DC Input Data(PV side)							
Max. Recommended PV Power	16kW	19.8kW	20kW	24kW	30kW	40kW	50kW
Max. PV Voltage	1000V						
Start Voltage	200V						
MPPT Voltage Range	200V-850V						
Nominal Voltage	600V						
PV Input Current	20A+20A		30A+20A			30A+30A	
Number of MPP Trackers / Strings Per MPP Tracker	2/2+1					2/2+2	
Grid Data							
Nominal Input Voltage	220/380Vac, 230/400Vac (-20%~+15%)						
Nominal Grid Frequency	50/60Hz (45~55Hz/55~65Hz)						
Max. AC Output Power	8.8kVA	9.9kVA	11kVA	13.2kVA	16.5kVA	22kVA	27.5kVA
AC Output/Input Rated Current	11.6A	14.3A	14.5A	17.4A	21.7A	29A	36.3A
Max. Output Current	12.8A	14.3A	16A	19.2A	23.8A	32A	39.8A
Max. Continuous AC Passthrough	40A		80 A				
AC Output Data (Back Up)							
Rated Output Power	8kW	9.9kW	10kW	12kW	15kW	20kW	25kW
Max. Output Current	12.8A	14.3A	16A	19.2A	23.8A	32A	39.8A
Rated AC Output Voltage	220/380Vac, 230/400Vac (-20%~+15%)						
Rated AC Output Frequency	50/60Hz (45~55Hz/55~65Hz)						
Protection							
DC Polarity Reverse Connection Protection	Integrated						
AC Output Overcurrent Protection	Integrated						
AC Output Overvoltage Protection	Integrated						
AC Output Short Circuit Protection	Integrated						
Thermal Protection	Integrated						
DC Terminal Insulation Impedance Monitoring	Integrated						
DC Component Monitoring	Integrated						
Ground Fault Current Monitoring	Integrated						
Arc fault circuit interrupter (AFCI)	Integrated						
Power Network Monitoring	Integrated						
Island Protection Monitoring	Integrated						
Earth Fault Detection	Integrated						
DC input Switch	Integrated						
Overvoltage Load Drop Protection	Integrated						
Residual Current (RCD) Detection	Integrated						
Surge Protection Level (TYPE II(DC), TYPE II(AC))	Integrated						
General Data							
Operating Temperature Range	-40 to +60°C, >45°C Leistungsminderung						
Protection Degree	IP65						
Cooling Concept	Smart Cooling						
Communication with BMS	CAN / RS485						
Monitor Module	WiFi / 4G						
Display	LCD + LED						
Installation Style	Wall-mounted						
Warranty	10 Years						
Grid Regulation	NRS 097-2-1, VDE 4105, EN 50549-1, AS 4777.2, GB/T 34120, GB/T 34133, GB/T 34129						
Safety Regulation & EMC	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Net Weight	39.4 kg						
Gross Weight	48.6 kg						
Product Dimension	642x445x237.5 mm						
Package Dimension	789x568x367 mm						

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

High-voltage Hybrid Solar Inverter

IVGM Series | IVGM29K9~50KHP3G2

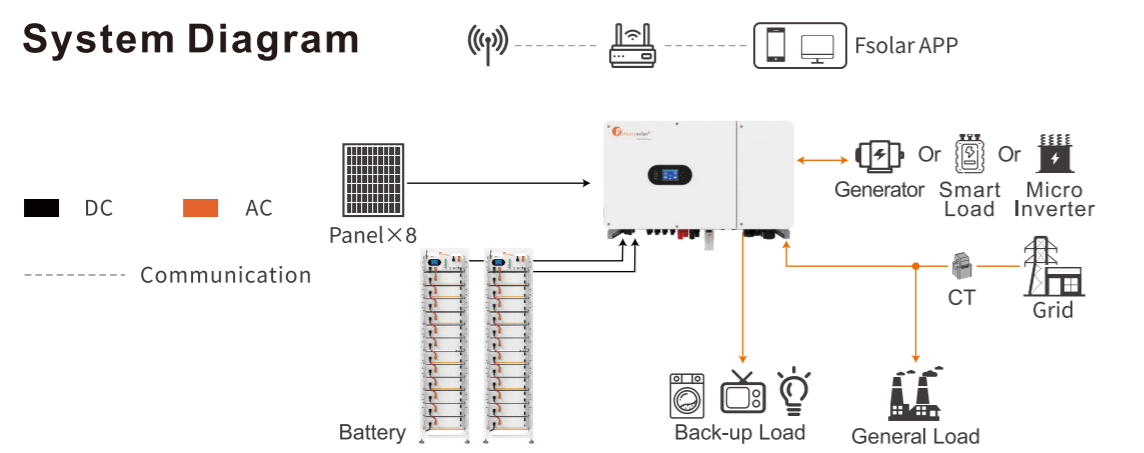
Three Phase



Features

- AI-powered forecasting, smart planning & personalized energy optimization.
- Supports WiFi monitoring and Fsolar smart cloud monitoring system.
- Customizable battery charge / discharge scheduling.
- Seamless power supply switching within 10ms.
- Configurable parameters and working mode via LCD touch screen.
- Programmable multiple operation modes: On grid, off grid and UPS.
- Programmable supply priority for battery or grid.
- 2 independent battery inputs, effectively reducing inter-cluster circulation.
- Multi-string PV input, 2 times over configuration capacity.
- Programmable generator port, support smart load and micro inverter access.
- IP65 protection level.
- 12 pcs in parallel maximum.
- Auto restart while AC is recovering.

System Diagram



Specifications

Model	IVGM29K9HP3G2	IVGM30KHP3G2	IVGM40KHP3G2	IVGM50KHP3G2
Battery Input Data				
Battery Type	LFP (LiFePO4)			
Battery Voltage Range	160~800Vd.c.			
Max. Charging Current	50+50(A)			
Max. Discharging Current	50+50(A)			
Number of Battery Input	2			
PV String Input Data				
Max. DC Access Power	59.8kW	60kW	80kW	100kW
Max. DC Input Power	47.84kW	48kW	64kW	80kW
Max. DC Input Voltage	1000Vd.c.			
Min. DC Input Voltage	150Vd.c.			
Start-up Voltage	180Vd.c.			
Rated DC Input Voltage	600Vd.c.			
MPPT Range	150~850Vd.c.			
Full Load DC Voltage Range	443~850Vd.c.	444~850Vd.c.	444~850Vd.c.	550~850Vd.c.
PV Input Current	36+36+36(A)		36+36+36+36(A)	
Max. PV Isc	55+55+55(A)		55+55+55+55(A)	
No. of MPP Trackers	3		4	
No. of Strings Per MPP Tracker	2		2	
AC Output Data				
Rated AC Output Power	29.9kW	30kW	40kW	50kW
Max. AC Output Power	29.9kW	33kW	44kW	55kW
AC Output Rated Current	43.4A	43.5A	58A	72.5A
Max. AC Current	43.4A	47.9A	63.8A	79.7A
Max. Output Overcurrent Protection (A)	144(A)		192(A)	
Rated AC Voltage	220/380,230/400 Vac(-20%~+15%)			
AC Wiring Mode	3L+N+PE			
Rated AC Frequency	50 /60 Hz (45~55Hz/55~65Hz)			
THDI	<3% (At Rated Power)			
Power Factor	0.8(Leading) to 0.8(Lagging)			
Safety and Standards				
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Over Voltage Category	OVCI (DC), OVC III (AC)			
Grid Regulation	NRS 097-2-1, VDE4105, EN50549-1, AS 4777.2, GB/T 34120, GB/T 34133, GB/T 34129			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
Protection				
PV Input Lightning Protection	Integrated			
PV String Input Reverse	Integrated			
Polarity Protection	Integrated			
Battery Input Lightning Protection	Integrated			
AC Output Lightning Protection	Integrated			
Battery Input Reverse Polarity Protection	Integrated			
Insulation Resistor Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
Output Over Current Protection	Integrated			
Output Short-Circuit Protection	Integrated			
Output Over Voltage Protection	Integrated			
Anti-islanding Protection	Integrated			
General Data				
Net Weight	80KG		87.1KG	
Gross Weight	101KG		107.1KG	
Product Dimension	940*582*340MM			
Package Dimension	1114*774*469MM			
Protection Degree	IP65			
Operating Temperature Range	-40 to 60°C(> 50°C Derating)			
Humidity	0~95% (No Condensation)			
Cooling	Smart Cooling			
Communication with BMS	RS485,CAN			
Monitor Module	WiFi/GPRS			
Installation Style	Wall-mounted			
Warranty	10 Years			

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

High-voltage Hybrid Solar Inverter

IVGM Series | IVGM125KHP3G1

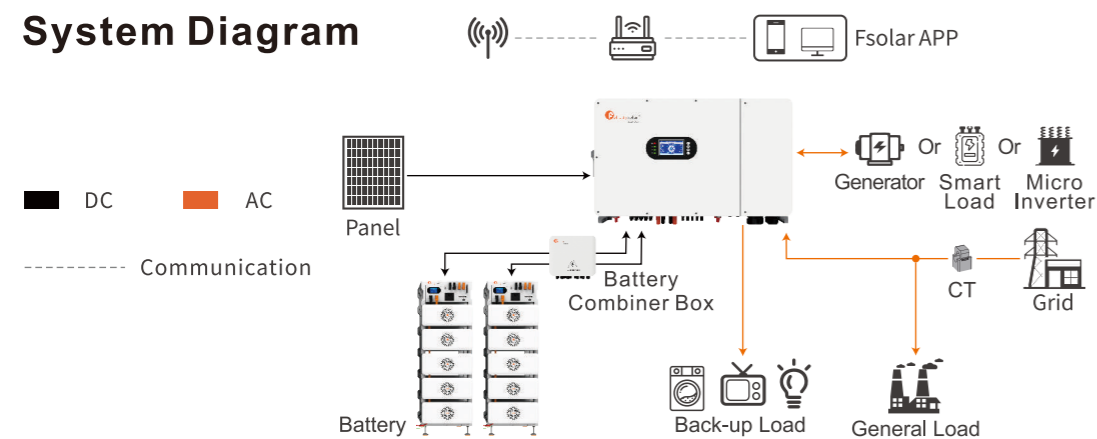
Three Phase



Features

- 0ms grid-to-off-grid transfer.
- Supports single-phase input, three-phase output.
- Active PID recovery function for long-term energy yield.
- Remote monitoring via Fsolar APP.
- Max. 12 units in parallel.
- 2x PV input oversizing.
- Dual independent batteries for stable high-power operation.
- Wide grid standard compatibility.
- IP66-rated protection.
- Generator / smart load / microinverter compatible.

System Diagram



Specifications

Model	IVGM125KHP3G1
Battery Input Data	
Battery Type	LFP (LiFePO4)
Battery Voltage Range	160~1000Vdc
Max. Charging / Discharging Current	120+120(A)
Number of Battery Input	2
PV String Input Data	
Max. DC Input Power	250kW
Max. DC Input Voltage	1000Vdc
Start-up Voltage	180Vdc
Rated DC Input Voltage	600Vdc
MPPT Range	150~850Vdc
Full Load DC Voltage Range	555~850Vdc
PV Input Current	10x45(A)
Max. PV Isc	40x68(A)
No. of MPP Trackers	10
No. of Strings Per MPP Tracker	2
AC Input/Output Data	
Rated AC Input/Output Power	125kW
Max. AC Input/Output Power	137kVA
Max. AC Input/Output Current	198.6A
Max. Output Overcurrent Protection (A)	270 A
Max. AC Bypass (grid to load)	270 A
Single Phase Peak Power (off-grid)	1.5 times of rated power, 10s
Rated AC Voltage	220/380,230/400 Vac (-20%~+15%)
AC Wiring Mode	3L+N+PE
Rated AC Frequency	50 /60 Hz (45~55 Hz/55~65 Hz)
Safety and Standards	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4110
Safety EMC / Standard	IEC61000-6-2/4, CEI 0-16
Surge Protection Level	TYPE III(DC), TYPE III(AC)
Over Voltage Category	OVC II(DC), OVC III(AC)
Protection	
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Battery Input Lightning Protection	Integrated
Battery Input Reverse Polarity Protection	Integrated
DC Component Detection	Integrated
Insulation Resistor Detection	Integrated
Residual Current Monitoring Unit	Integrated
Arc Fault Monitoring (optional)	Integrated
Output Over Current Protection	Integrated
Output Shorted Protection	Integrated
Output Over Voltage Protection	Integrated
Remaining Current (RCD) Monitoring	Integrated
Overheat Protection	Integrated
Anti-islanding Protection	Integrated
AC Output Lightning Protection	Integrated
General Data	
Protection Degree	IP66
Operating Temperature Range	-40 to 60 °C (> 45 °C derating)
Humidity	0~100 % (No condensation)
Cooling	Smart cooling
Altitude	4000 m
Inverter Topology	Non-isolated
Parallel Compatible	Up to 12 in parallel
LCD/LED Display	LCD+LED
Communication With BMS	RS485/CAN
Monitor Module	WIFI/Bluetooth/4G/LAN(optional)
Installation Style	Wall-mounted
Warranty	10 Years
Net Weight / Gross Weight (KG)	156KG / 200KG
Product Dimension(MM)	1271*814.5*379.5MM
Package Dimension(MM)	1410*960*646MM

*Product specifications may vary during continuous improvements. Please contact us for latest details.
*Refer to Felicitysolar's warranty policy for applicable conditions.






LiFePO4 Battery

FLA Series | FLA12100~300PG2

Low-voltage



Features

-  Build-in WiFi / Bluetooth for real-time monitoring.
-  Max. 16 units in parallel.
-  Multiple protection with built-in smart BMS and fuse.
-  Compatible with leading inverter brands.
-  LiFePO4: higher safe performance and longer cycle life.

Scenarios



RV



Small Boat



Small Stores



Small Offices



Small Farms

Specifications

Model	FLA12100PG2	FLA12200PG2	FLA12300PG2
Battery Type	LiFePO4		
Energy	1.28kWh	2.56kWh	3.75kWh
Nominal Voltage	12.8V	12.8V	12.8V
Operating Voltage	11.2-14.4V	11.2-14.4V	11.2-14.4V
Max.Continuous Charge/Discharge Current[1]	100A	120A	150A
Peak Charge/Discharge Current(15s)	150A	200A	200A
Max.Charge/Discharge Power	1,250W	1,500W	1,875W
Depth of Discharge(DOD)	≥ 95%	≥ 95%	≥ 95%
Scalability	Up to 16 units in parallel(20.48kWh)	Up to 16 units in parallel(40.96kWh)	Up to 16 units in parallel(60kWh)
Max. Series Connections	4 Units		
Communication	CAN2.0/RS485/WIFI/Bluetooth		
Protection Level	IP21		
Cycle Life[2]	≥ 6,000 Cycles		
Charging Temperature Range	0-55 °C		
Discharging Temperature Range	-20-55 °C		
Display	LED		
Installation	Floor-Mounted		
Protection	Built-in smart BMS, Fuse		
Warranty	5 Years		
Net Weight	10.3kg	15.5kg	26kg
Gross Weight	12.3kg	18.5kg	29kg
Product Dimension	295×201×199MM	329×248×199MM	379×241×286MM
Package Dimension	357×263×261MM	391×310×257MM	438×300×344MM

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

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

LiFePO4 Battery

FLA Series | FLA48100UG2



Features

- LiFePO4: higher safe performance and longer cycle life.
- Build-in WiFi / Bluetooth for real-time monitoring.
- Multiple installation choices: stack-mounted / wall-mounted / rack-mounted.
- Max. 32 units in parallel.
- Equipped with over-voltage trip protection & fire protection module.
- Max. 1C charge and discharge rate.
- Easy fuse replacement design.
- CCS Technology for better system performance.

Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

Specifications

Model	FLA48100UG2
Battery Type	LiFePO4
Nominal Energy	5.12kWh
Nominal Voltage	51.2V
Operating Voltage	44.8-57.6V
Recommend Charge/Discharge Current	50A
Max. Continuous Charge/Discharge Current[1]	100A
Peak Charge/Discharge Current(15s)	125A
Max. Charge/Discharge Power	5,000W
Peak Charge/Discharge Power(15s)	6,250W
Depth of Discharge(DOD)	≥95%
Scalability	Max. 32 pcs in Parallel(163.84kWh)
Communication	CAN2.0/RS485/WIFI/Bluetooth
Protection Level	IP21
Cycle Life	≥ 6,000 Cycles (25°C±2°C,0.5C/0.5C,90%DOD,70%EOL)
Charging Temperature Range	0°C~+55°C
Discharging Temperature Range	-20°C~+55°C
Display Type	LED
Installation	Stacked Installation/Rack Installation/Wall-mounted Installation
Protection	Built-in Smart BMS, Breaker, Fuse
Warranty	10 Years
Certification	IEC 62619, EN IEC 61000-6-1/2/3/4
Net Weight	43KG
Gross Weight	47KG
Product Dimension	575X483X133MM
Package Dimension	642X542X241MM

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

*Disclaimer: This product is currently in pilot production. Final specifications, design, and features may differ from those presented here.
*Refer to Felicitysolar's Warranty Policy for applicable conditions.

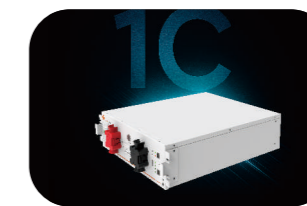
Product Display



Max. 32 units in parallel



Guaranteed safety, peace of mind



Max. 1C charge and discharge rate



Multiple installation choices, easy and convenient

LiFePO4 Battery

FLA Series | FLA48100~48230-EU

Low-voltage



(The battery's size varies according to its capacity.)

Features

- Built-in fire protection system.
- Scalable expansion up to 15 pcs in parallel.
- Built-in WiFi / Bluetooth for remote monitor the battery pack data.
- LiFePO4: Higher safe performance and longer cycle life.
- Multiple Protection with built-in smart BMS, breaker and fuse.
- Compatible with leading inverter brands.
- Up to 10-year long warranty.

Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

Specifications

Model	FLA48100-EU	FLA48171-EU	FLA48206WG1-EU	FLA48230-EU
Battery Type	LiFePO4			
Nominal Energy	5.12kWh	8.75kWh	10.5kWh	11.7kWh
Nominal Voltage	51.2V	51.2V	51.2V	51.2V
Operating Voltage	44.8-57.6V	44.8-57.6V	44.8-57.6V	44.8-57.6V
Max. Continuous Charge/Discharge Current [1]	100A	120A	160A	150A
Peak Charge/Discharge Current (15s)	150A	150A	300A	200A
Max. Charge/Discharge Power (15s)	7,500W	6,000W	8,200W	7,500W
Scalability	Max. 15 pcs in Parallel(76.8kWh)	Max. 15 pcs in Parallel(131.5kWh)	Max. 15 pcs in Parallel(157.5kWh)	Max. 15 pcs in Parallel(177kWh)
Depth of Discharge (DOD)	≥95%			
Communication	CAN2.0/RS485/WIFI/Bluetooth			
Protection Degree	IP21			
Cycle Life	≥ 6,000 Cycles		≥6,000@ 25°C Cycles	≥ 6,000 Cycles
Charging Temperature Range	0°C~+55 °C		-20~55°C	0°C~+55 °C
Discharging Temperature Range	-20°C~+55 °C		-20~55°C	-20°C~+55 °C
Display Type	LCD+LED			
Installation	Wall-Mounted / Floor-Mounted			
Warranty Period	10 Years			
Protection	Built-in smart BMS, Breaker, Fuse		BMS, Fuse, Breaker, MX+OF	Built-in smart BMS, Breaker, Fuse
Certification	IEC 62619, UN38.3, IEC/EN 61000-6-1/2/3/4		/	IEC 62619, UN38.3, IEC/EN 61000-6-1/2/3/4
Product Weight	55KG	68KG	90KG	97KG
Package Weight	77KG	88KG	101KG	115KG
Product Dimension	775X425X209MM	735X433X188MM	787 × 450 × 249MM	783X450X274MM
Package Dimension	892X545X385MM	849X550X362MM	900 × 568 × 344MM	900X570X450MM

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

*Product specifications may vary during continuous improvements. Please contact us for latest details.

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

Product Display



Built-in WiFi/Bluetooth for Remote Monitoring



Aerosol Fire Extinguishing System



Support Wall Mounted Installation



Wide Inverter Compatibility

LiFePO4 Battery

FLA Series | FLA48314-EU & FLA48280/48460TG2-EU

Low-voltage



Features

- LiFePO4: higher safe performance and longer cycle life.
- Built-in WiFi / bluetooth for real-time monitoring.
- Enhanced safety with aerosol fire extinguishing system.
- Scalable expansion up to 15 pcs in parallel.
- Multiple protection with built-in smart BMS, breaker and fuse.
- Compatible with leading inverter brands
- External battery fuse design for easy replacement.

Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

Specifications

Model	FLA48280TG2-EU	FLA48314-EU	FLA48460TG2-EU
Battery Type	LiFePO4	LiFePO4	LiFePO4
Nominal Energy	14.3kWh	16kWh	23.5kWh
Nominal Voltage	51.2V	51.2V	51.2V
Operating Voltage	44.8-57.6V	44.8-57.6V	44.8-57.6V
Max. Continuous Charge/Discharge Current [1]	150A/150A	160A	250A
Peak Charge/Discharge Current (15s)	200A	300A	500A
Max. Charge/Discharge Power (15s)	7,700W/7,700W	8,000W	12,500W
Scalability	Max. 15 pcs in Parallel (214.5kWh)	Max. 15 pcs in Parallel (240kWh)	Max. 15 pcs in Parallel (352.5kWh)
Depth of Discharge (DOD)	≥95%		
Protection Degree	IP21		
Communication	CAN2.0/RS485/WIFI/Bluetooth		
Cycle Life	≥ 8,000 @25°C (25°C±2°C, 0.5C/0.5C,90%DOD,70%EOL)	≥ 8,000 Cycles (25°C±2°C, 0.5C/0.5C,90%DOD,70%EOL)	≥ 6,000 Cycles (25°C±2°C, 0.5C/0.5C,90%DOD,70%EOL)
Charging Temperature Range	0°C~+55 °C		
Discharging Temperature Range	-20°C~+55 °C		
Display Type	LCD+LED		
Installation	Floor-Mounted		
Protection	Built-in smart BMS, Breaker, Fuse, MX+OF	Built-in smart BMS, Breaker, Fuse	Built-in Smart BMS, Breaker, Fuse
Warranty Period	10 Years		
Certification	UN38.3	UN38.3	UN38.3
Product Weight	118.5KG	121.5KG	186.5KG
Package Weight	140.5KG	143.5KG	220KG
Product Dimension	435X880X247MM	435X880X247MM	570X250X980MM
Package Dimension	960X555X450MM	960X555X450MM	1135X690X465MM

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

*Product specifications may vary during continuous improvements. Please contact us for latest details.

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

Product Display



Built-in WiFi / Bluetooth for Remote Monitoring



Aerosol Fire Extinguishing System



External Battery Fuse Design



Support 15 Pcs in Parallel

LiFePO4 Battery

FLB Series | FLB48100~230WG1-H

Low-voltage



Features

- Remote monitoring of battery pack data via built-in WiFi / bluetooth.
- LiFePO4: higher safe performance and longer cycle life.
- High-rate charging/discharging delivers fast energy flow and sustained power.
- CCS welding lowers battery internal resistance for enhanced performance.
- Scalable expansion up to 32 pcs in parallel.
- Multiple protection with built-in smart BMS, breaker and fuse.
- Compatible with leading inverter brands.
- Resist harsh environment with IP65-rate protection.
- Easily replace the battery fuse when it blows.
- Equipped with an aerosol fire extinguishing system.
- Heating module for restoring battery to its working temp.

Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

Specifications

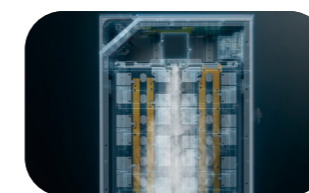
Model	FLB48100WG1-H	FLB48206WG1-H	FLB48230WG1-H
Battery Type	LiFePO4		
Nominal Energy	5.12kWh	10.5kWh	11.7kWh
Nominal Capacity	100Ah	206Ah	230Ah
Nominal Voltage	51.2V		
Operating Voltage	44.8~57.6V		
Max. Continuous Charge/Discharge Current[1]	100A	160A	150A
Peak Charge/Discharge Current(15s)	150A	300A	200A
Scalability	Max. 32 pcs in Parallel(163.84kWh)	Max. 32 pcs in Parallel(336kWh)	Max. 32 pcs in Parallel(374.4kWh)
Depth of Discharge(DOD)	≥95%		
Display Type	LED		
Protection Degree	IP65		
Working Temperature Range	Charge/Discharge: -20°C~+55 °C		
Storage Temperature Range	0°C~+35°C		
Humidity	5%~95%		
Altitude	≤ 2,000m		
Communication	CAN2.0/RS485/WIFI/Bluetooth		
Protection	Built-in smart BMS, Breaker, Fuse	BMS, Fuse, Breaker, MX+OF	Built-in smart BMS, Breaker, Fuse
Cycle Life	≥6,000 Cycles(25°C +2°C,0.5C/0.5C,90%DOD,70%EOL)		
Installation	Wall-Mounted / Floor-Mounted		
Warranty Period	10 Years		
Certification	UN38.3	UN38.3	UN38.3
Product Weight	48.5KG	91.5KG	91KG
Package Weight	53KG	101KG	111KG
Product Dimension	650X450X174MM	715 × 450 × 258MM	683X450X258MM
Package Dimension	752X552X253MM	808 × 546 × 352MM	778X548X438MM

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

*Product specifications may vary during continuous improvements. Please contact us for latest details.

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

Product Display



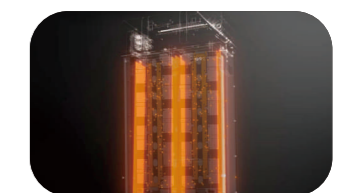
Aerosol Fire Extinguishing System



IP65 Protection Level



Scalable expansion up to 32 pcs in parallel



Thermal Module

LiFePO4 Battery

FLB Series | FLB48280TG1-H & FLB48314TG1-H

Low-voltage



Features

- Remote monitoring of battery pack data via built-in WiFi / bluetooth.
- LiFePO4: higher safe performance and longer cycle life.
- High-rate charging/discharging delivers fast energy flow and sustained power.
- CCS welding lowers battery internal resistance for enhanced performance.
- Scalable expansion up to 32 pcs in parallel.
- Multiple protection with built-in smart BMS, breaker and fuse.
- Compatible with leading inverter brands.
- Resist harsh environment with IP65-rate protection.
- Easily replace the battery fuse when it blows.
- Equipped with an aerosol fire extinguishing system.
- Heating module for restoring battery to its working temp.

Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

Specifications

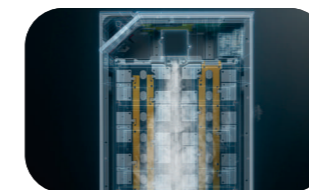
Model	FLB48280TG1-H	FLB48314TG1-H
Battery Type	LiFePO4	
Nominal Energy	14.3kWh	16kWh
Nominal Capacity	280Ah	314Ah
Nominal Voltage	51.2V	51.2V
Operating Voltage	44.8-57.6V	44.8-57.6V
Max. Continuous Charge/Discharge Current[1]	150A	160A
Peak Charge/Discharge Current(15s)	300A	200A
Scalability	Max. 32 pcs in Parallel(457.6kWh)	Max. 32 pcs in Parallel(512kWh)
Depth of Discharge(DOD)	≥95%	
Display Type	LED	
Protection Degree	IP65	
Working Temperature Range	Charge/Discharge: -20°C~+55 °C	
Storage Temperature Range	0°C~+35°C	
Humidity	5%~95%	
Altitude	≤ 2,000m	
Communication	CAN2.0/RS485/WIFI/Bluetooth	
Protection	BMS, Fuse, Breaker, MX+OF	Built-in smart BMS, Breaker, Fuse
Cycle Life	≥8,000@25°C	≥8,000 Cycles
Installation	Floor-Mounted	
Warranty Period	10 Years	
Certification	UN38.3	UN38.3
Product Weight	118Kg	121KG
Package Weight	140.5Kg	143KG
Product Dimension	450×895×235MM	895X450X235MM
Package Dimension	958×548×440MM	958X548X424MM

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

*Product specifications may vary during continuous improvements. Please contact us for latest details.

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

Product Display



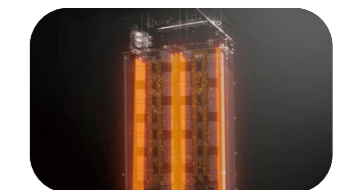
Aerosol Fire Extinguishing System



IP65 Protection Level



Scalable expansion up to 32 pcs in parallel



Thermal Module

LiFePO4 Battery

FLS Series | FLS48100SG2

Low-voltage



Features

- External fuse design for easy replacement.
- Flexible installation: stack-mounted or floor-mounted.
- Build-in aerosol fire extinguishing system.
- LiFePO4: higher safe performance and longer cycle life.
- Build-in WiFi for real-time monitoring.
- Max. 8 units in parallel.
- Equipped with over-voltage trip protection.
- Compatible with leading inverter brands.

Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

Specifications

Model	FLS48100SG2							
Battery Type	LiFePO4							
Module Nominal Energy	5.12kWh							
Module Nominal Capacity	100Ah							
Module Nominal Voltage	51.2V							
Number of Battery Modules	1	2	3	4	5	6	7	8
System Nominal Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
System Nominal Voltage	51.2V							
System Operating Voltage	44.8-57.6V							
Recommend Charge/Discharge Current	50A	100A	150A	200A	250A	300A	350A	400A
Max. Continuous Charge/Discharge Current[1]	60A	120A	180A	240A	300A	360A	400A	400A
Peak Charge/Discharge Current(15S)	100A	200A	300A	400A	500A	600A	700A	800A
Scalability	Max.8 pcs in Parallel(40.96kWh)							
Depth of Discharge(DOD)	≥95%							
Display Type	Control Module: LCD/Battery Module: LED*4							
Protection Level	IP21							
Working Temperature Range	Charge: 0°C~55°C							
	Discharge: -20°C~55°C							
Storage Temperature Range	0°C~+35°C							
Humidity	5%~95%							
Altitude	≤ 2,000M							
Communication	CAN2.0/RS485/WIFI/Bluetooth							
Cycle Life[2]	≥ 6,000 Cycles							
Installation	Stack-Mounted/Floor-Mounted							
Protection	Built-in Smart BMS, Breaker, Fuse							
Warranty Period[3]	10 Years							
Control Module FLS48100SCG2	Product Weight Approximate	46KG						
	Package Weight Approximate	60KG						
	Product Dimension	600X450X180 MM						
	Package Dimension	712X562X333 MM						
Battery Module FLS48100SMG2	Product Weight Approximate	46KG						
	Package Weight Approximate	50KG						
	Product Dimension	600X450X180 MM						
	Package Dimension	712X562X298 MM						

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

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

[3] Conditions apply, refer to Felicitysolar Warranty policy.

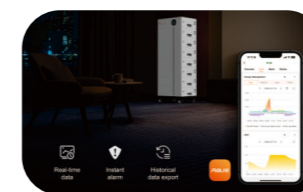
*Product specifications may vary during continuous improvements. Please contact us for latest details.

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

Product Display



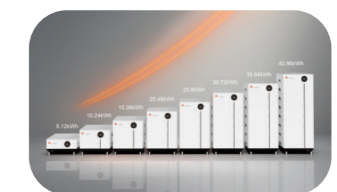
Multiple Protections



Real-time Monitoring



External Fuse Design



Max.8 Pcs in Parallel

LiFePO4 Battery

FLH Series | FLH96050SG2(-H)

High-voltage



Features

- Built-in WiFi / bluetooth: remote monitoring of battery pack data.
- Up to 6 units in series per cluster(30.72kWh), max 16 clusters in parallel(491.52kWh).
- Optional heating module for restoring battery to its working temp (FLH96050SG2-H model).
- Equipped with an aerosol fire extinguishing system.
- Suitable for outdoor use with IP65 protection level.
- Battery modules automatic addressing without manual dip-switch setup.
- 12V debug port for safer and faster repair.
- USB & WiFi maintenance options for convenient after-sales support.
- Integrated grounding design without multiple grounding cables.
- Equipped with balancing module to keep new and old batteries consistent.
- Wide Compatibility: Compatible with leading inverter brands.

Scenarios



Small and Mid-sized Factories



Community Hospitals



Neighborhood Supermarkets



Farms



Hotels

Specifications

Model	FLH96050SG2/FLH96050SG2-H				
Battery Type	LiFePO4				
Module Energy	5.12kWh				
Module Capacity	50Ah				
Module Nominal Voltage	102.4V				
Number of Battery Modules	2	3	4	5	6
System Energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
System Usable Energy	9.21kWh	13.82kWh	18.43kWh	23.04kWh	27.64kWh
System Nominal Voltage	204.8V	307.2V	409.6V	512V	614.4V
System Operating Voltage	185.6-230.4V	278.4-345.6V	371.2-460.8V	464-576V	556.8-691.2V
Recommend Charge/Discharge Current	25A	25A	25A	25A	25A
Max. Continuous Charge/Discharge Current[1]	50A	50A	50A	50A	50A
Depth of Discharge(DOD)	90%				
Display Type	LED+LCD(Touch)				
IP Rating of Enclosure	IP65				
Operating Temperature Range	Charge: 0°C~+55 °C				
	Discharge: -20°C~+55 °C				
Storage Temperature Range	0°C~+35°C				
Humidity	5%~95%				
Altitude	≤ 2,000M				
Cycle Life[2]	≥ 6,000 Cycles				
Installation	Stacking-Mounting/Floor-Mounting				
Protection	Built-in Smart BMS, Breaker				
Communication	CAN2.0/RS485/WIFI/Bluetooth				
Warranty Period[3]	10 Years				
Certification	UN38.3, IEC 62619, IEC 60730-1, IEC 62040-1, IEC/EN 61000-6-1/2/3/4				
Control Module FLH96050SCG2 FLH96050SCG2-H	Net Weight	12.5KG			
	Gross Weight(with base)	24.5KG			
	Product Dimension	600x385x200MM			
Battery Module FLH96050SMG2 FLH96050SMG2-H	Package Dimension(with base)	712x497x352MM			
	Battery Designation [4]	IFpP/41/150/102/[(1P32S)NS]M/-10+50/90			
Battery Module FLH96050SMG2 FLH96050SMG2-H	Net Weight	57.5KG			
	Gross Weight	62KG			
	Product Dimension	600x385x260MM			
Package Dimension(with base)	712x497x378MM				

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

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

[3] Conditions Apply, Refer to Felicitysolar Warranty Policy.

[4] "N" Means the Number of Battery Packs Connected Series and Should not Exceed 6. (N≤6)

*Product specifications may vary during continuous improvements. Please contact us for latest details.

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

Product Display



Built-in WiFi / Bluetooth for Remote Monitoring



Optional Heating Modules (FLH96050SG2-H model)



Support 6 Pcs in Series, Max. 16 Clusters in Parallel

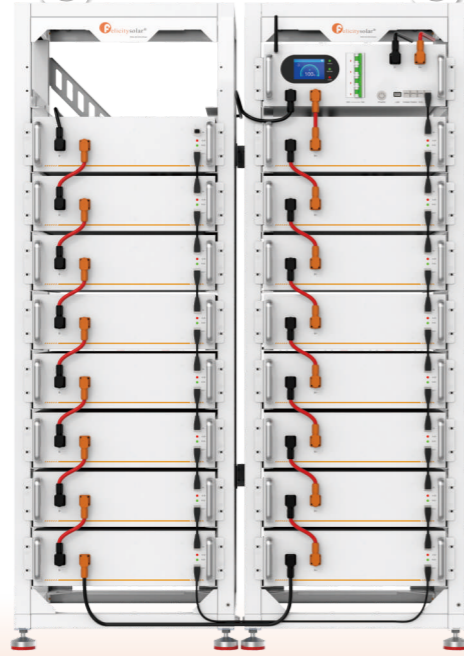


High-efficiency New and Old Modules Balancing

LiFePO4 Battery

FLH Series | FLH48100UG2

High-voltage



Features

- Supports WiFi monitoring and Fsolar smart cloud monitoring system.
- Enhanced safety with aerosol fire extinguishing system.
- Automatically identifies virtual addresses without DIP switch settings.
- Quickly identify faulty battery module on LCD screen.
- Rack-mounted design, available in multiple layers with integrated grounding.
- CCS Technology for better system performance.
- Per cluster: 16 battery packs in series (81.92 kWh).
- System max: Up to 16 clusters in parallel (1.3 MWh).

Scenarios



Small and Mid-sized Factories



Community Hospitals



Neighborhood Supermarkets



Farms



Hotels

Specifications

Model	FLH48100UG2			
Battery Type	LiFePO4			
Nominal Energy	5.12kWh			
Nominal Voltage	51.2V			
Nominal Capacity	100Ah			
Number of Battery Modules	5(Min)	8	12	16(Max) ^[1]
System Nominal Voltage	256V	409.6V	614.4V	819.2V
System Operating Voltage	232~288V	371.2~460.8V	556.8~691.2V	742.4~921.6V
System Energy	25.6kWh	40.96kWh	61.44kWh	81.92kWh
System Usable Energy	23.04kWh	36.86kWh	55.3kWh	73.73kWh
Rated DC Power	25.6kW	40.96kW	61.44kW	81.92kW
Recommend Charge/Discharge Current	50A			
Max. Continuous Charge/Discharge Current[2]	100A			
Depth of Discharge(DOD)	90%			
Display Type	LED+LCD(Touch)			
IP Rating of Enclosure	IP21			
Working Temperature Range	Charge:0°C~+55°C			
	Discharge:-20°C~+55°C			
Storage Temperature Range	0°C~+35°C			
Humidity	5%~95%			
Altitude	≤3,000M			
Cycle Life[3]	≥ 6,000 Cycles			
Installation	Rack-Mounting			
Protection	Built-in Smart BMS, Breaker, Fuse			
Communication Port	CAN2.0/RS485/WIFI/Bluetooth			
Warranty Period[4]	10 Years			
Certification	CE/IEC 62619/UN38.3			
Control Module FLH48100UCG2	Product Dimension	482.6x565x150MM		
	Package Dimension	687x562x269MM		
	Product Weight Approximate	17.5KG		
	Package Weight Approximate	24.7KG		
Battery Module FLH48100UMG2	Product Dimension	482.6x565x133MM		
	Package Dimension	687x562x250MM		
	Product Weight Approximate	42.5KG		
	Package Weight Approximate	46KG		
	Battery Designation[5]	IFpP/54/150/120/[(1P16S)NS]M/-20+50/90		
Rack FLH48100R13G2	Product Dimension	590×532×2087.5MM (13th Floor)		
	Package Dimension	657×138×2167MM		
	Product Weight Approximate	49KG		
	Package Weight Approximate	57KG		
Rack FLH48100R9G2	Product Dimension	590×532×1515.5MM (9th Floor)		
	Package Dimension	657×138×1595MM		
	Product Weight Approximate	37.7KG		
	Package Weight Approximate	43.2KG		

[1] Currently, The Battery Supports a Maximum of 16 BMUs. For the Entire Energy Storage System, Confirm the Inverter's Maximum Supported Voltage Range to Determine the Maximum Number of BMUs that Can Be Installed

[2] Max. Continuous Charge/Discharge Current/Power is Affected by Temperature and SOC.

[3] Test Conditions: 0.5C Charging/Discharging @25±2°C, EOL70%.

[4] Refer to Felicitysolar's Warranty Policy for applicable conditions.

[5] "N" Means the Number of Battery Packs Connected Series and Should not Exceed 16. (N≤16)

*Product specifications may vary during continuous improvements. Please contact us for latest details.

LiFePO4 Battery

FLH Series | FLH48314UG1

High-voltage



Features

- Remote monitoring via Fsolar APP.
- Peace of mind with fire protection module.
- Pack-level air cooling, high-efficiency thermal management.
- Max. 15 pcs (241kWh) in series, max. 4 clusters (964kWh) in parallel.
- ≥ 8000 cycles life.
- User-friendly touchscreen.

Scenarios



Small and Mid-sized Factories



Community Hospitals



Neighborhood Supermarkets



Farms



Hotels

Specifications

Model	FLH48314UG1MN ^[1]			
Battery Type	LiFePO4			
Nominal Energy	16.07kWh			
Nominal Voltage	51.2V			
Nominal Capacity	314Ah			
Number of Battery Modules	5(Min)	8	12	15(Max) ^[2]
System Nominal Voltage	256V	409.6V	614.4V	768V
System Operating Voltage	232~288V	371.2~460.8V	556.8~691.2V	696~864V
System Rated Energy	80.38kWh	128.61kWh	192.924kWh	241.15kWh
Rated Usabled Power	72.34kWh	115.74kWh	173.62kWh	217.03kWh
Recommend Charge/Discharge Current	157A			
Max. Continuous Charge/Discharge Current ^[3]	240A			
Depth of Discharge(DOD)	90%			
Display Type	LED+LCD (Touch)			
IP Rating of Enclosure	IP20			
Working Temperature Range	Charge:0°C~+55°C			
	Discharge:-20°C~+55°C			
Storage Temperature Range	0°C~+35°C			
Humidity	5%~95%			
Altitude	≤3,000M			
Cycle Life ^[4]	≥ 8,000 Cycles			
Installation	Module Stacking			
Protection	Built-in Smart BMS, MCCB with shunt trip function, Fuse			
Communication Port	RS485 / CAN2.0 / Enthernet / WiFi(2.4G) ^[5]			
Warranty Period ^[6]	10 Years			
Certification	CE/ IEC 62619/IEC62040/UN38.3			
Control Module FLH48314UCG1	Product Dimension	780x525.4x180MM		
	Package Dimension	890x602x333MM		
	Product Weight Approximate	28.8KG		
	Package Weight Approximate	42.2KG		
Battery Module FLH48314UMG1	Product Dimension	819.5x525.4x260MM		
	Package Dimension	925x560x405MM		
	Product Weight Approximate	127.2KG		
	Package Weight Approximate	146.5KG		
Battery Designation	IFpP74/176/120/[1P16S]E/-20+50/90			

[1] N=5,6,7,8,9,10,11,12,13,14 or 15. N is the quantity of battery module connected series and should not exceed 15.(5≤N≤15)

[2] Currently, the battery supports a maximum of 15 battery modules. For the entire energy storage system, confirm the inverter's maximum supported voltage range to determine the maximum number of battery modules that can be installed.

[3] Max. continuous charge/discharge current is affected by temperature and SOC.

[4] Test conditions: 0.5C Charging/Discharging@25±2°C,EOL70%.

[5] A 10M/100M Ethernet port (RJ45) is provided for connecting the system to your local network via a router or switch. This connection enables core functions: software upgrades, remote monitoring & diagnostics, and cloud data synchronization. Advanced cloud-based services are in development. Availability and activation will be announced by the supplier. Contact them for future software updates to enable these features.

[6] Refer to Felicitysolar's warranty policy for applicable conditions.









*Product specifications may vary during continuous improvements. Please contact us for latest details.

C&I Energy Storage System

IVGM Series 50kW inverter & FLH Series 60kWh high-voltage LFP battery



Features

-  Cabinet-based BESS with inverter connection interface.
-  Remote monitoring via Fsolar APP.
-  Fire protection module / smoke and temp detector / exhaust system.
-  Built-in air-conditioning system, better thermal management.
-  Auxiliary protection with external firefighting water inlet.
-  Max. energy storage capacity reaching 720kWh.
-  Supports single-phase input, three-phase output.
-  150% unbalanced three-phase output.

Scenarios



Small and Mid-sized Factories



Community Hospitals



Neighborhood Supermarkets



Farms



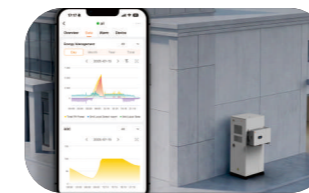
Hotels

Specifications

Model	FLH-E60
System Specification	
Nominal Input/Output Power	50 kW
AC Input/Output	50 /60 Hz; 3L+N+PE; 220/380,230/400 Vac
System Energy	61.44 kWh
System Usable Energy	55.3kWh
Module Capacity	100 Ah
AC Input/Output Rated Current	72.5 A
System Operating Voltage	556.8~691.2V
Number of Battery Modules	12
Humidity	5%~95%
Altitude	≤3000m
IP Rating of Enclosure	IP55
Dimension (W*D*H)	780*1056*2235mm(no contain inverter)
Weight Approximate (kg)	949kg(no contain inverter)
Installation Style	Floor-Mounted
Warranty	10 Years
Battery Technical Specification	
Battery Chemistry	LiFePO4
Battery Module Energy	5.12 kWh
Battery Module Nominal Voltage (V)	51.2 V
Recommend Charge/Discharge current (A)	50 A
Max.continuous Charge/Discharge current (A)	100 A
Battery Communication	CAN2.0/RS485/WIFI/Bluetooth
Storage Temperature (°C)	0~35°C
Operating Temperature Range	Charge: 0~55°C
	Discharge: -20~55°C
Depth of Discharge	90%
Cycle Life	≥6,000 (0.5C Charging / Discharging@25±2°C), EOL70%
Battery Module Certification	CE, IEC62619, UN38.3

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

Product Display



Real-time Monitoring



Built-in Air-conditioning System



Firefighting External Water Inlet











Outdoor Installation

Liquid Cooling All-in-one System

FelicityMatrix 500 Series



Features

-  BAT, BMS, PCS, EMS integration.
-  Remote monitoring via F solar APP.
-  Grid-to-off-grid Transfer.
-  Peace of mind with fire protection module.
-  C4 anti-corrosion and IP55 cabinet.
-  Liquid-cooling chiller for optimal system temp.
-  Reliable detection with smoke, temp, and immersion sensors.
-  ≥ 8000 cycles life.

Scenarios



Small and Mid-sized Factories



Community Hospitals



Neighborhood Supermarkets



Farms



Hotels

Specifications

Model	FLM500-125/261
DC Side	
Cell type	LFP 3.2 V / 314 Ah
System battery configuration	260S1P
Nominal capacity	261.2kWh
Nominal voltage	832V
Voltage range	728-936V
Charge/discharge rate	0.5P
Depth of charge and discharge	95%
AC side	
Nominal power	125kW
Nominal voltage	400V
Voltage range	360~440V
Access way	3P4L
Nominal frequency	50Hz/60Hz
THD	≤3%
DC component	≤0.5%
Power factor range	-1~1
Unbalance load capacity	100%
System Parameter	
Maximum System efficiency	≥90%
Cycle Life[1]	≥8000
Dimensions (W * H * D)	1050*2400*1350(mm)
Weight	2670KG
Degree of Protection	IP55
Anti-corrosion Degree	C4
Noise	≤75db
Operation Humidity Range	0-95%
Operation Temperature Range	-25~55°C(Derating from 45°C)
Operating Altitude	2000m(Derating from 2000m)
Temperature Control Method	Liquid cooling
Fire Suppression System	Aerosol fire extinguishing equipment,Smoke detector, Heat detector, Water fire protection
Communication Interface	Ethernet /RS485
Max.Parallel Quantity	"On grid:20 pcs ; Off grid:6 pcs"
Standard	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, UL9540A , EN50549, IEC62109

[1]This is provided by the battery cell manufacturer. Based on cell test condition of 25±2°C, 0.5C charge and discharge rate and SOH=70%.

*Product specifications may vary during continuous improvements. Please contact us for latest details.

*Refer to FelicitySolar's warranty policy for applicable conditions.

Battery Combiner Box

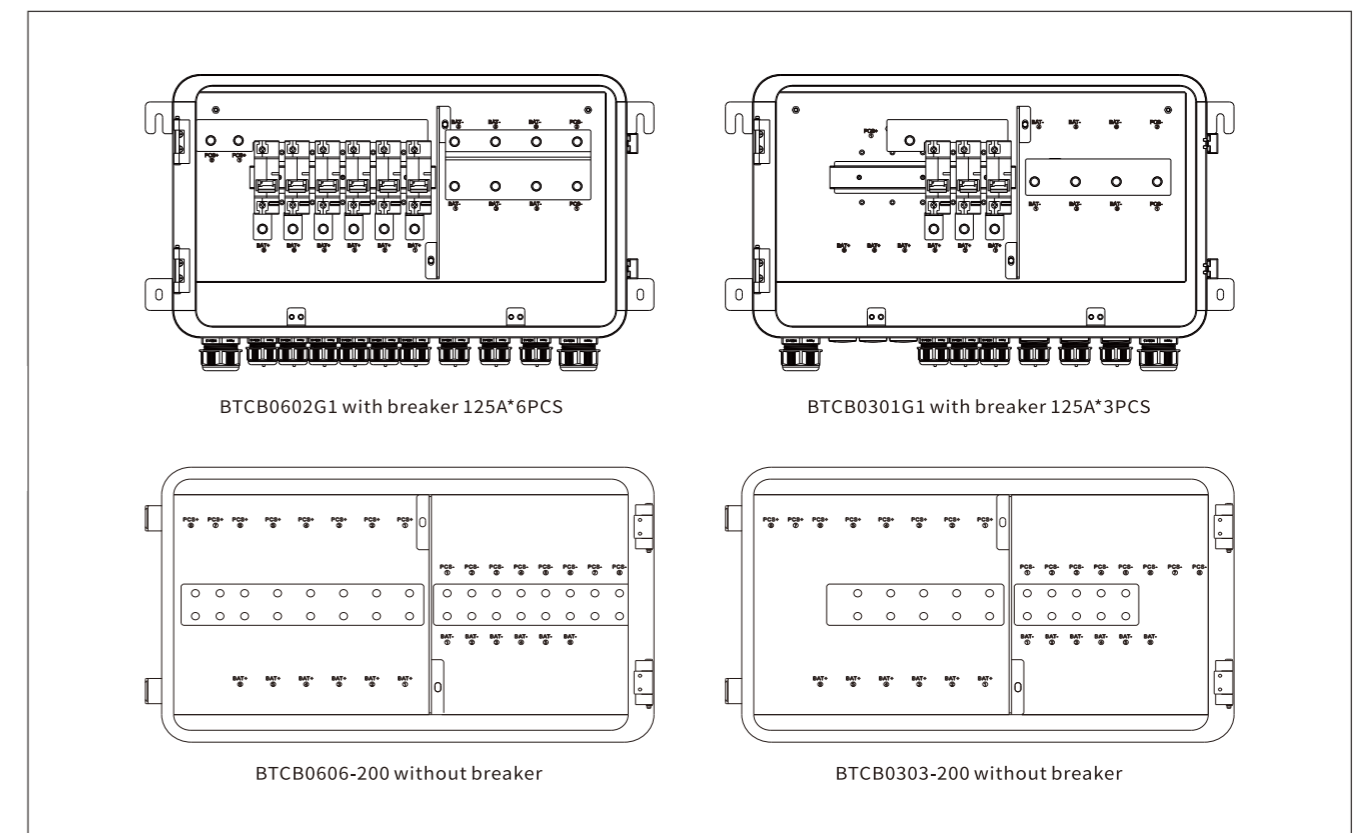
BTCB0602G1/0301G1 & BTCB0606/0303-200

Specifications




Model	BTCB0301G1	BTCB0303-200	BTCB0602G1	BTCB0606-200
Max. Imum Number of Input Paths	3	3	6	6
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			
Operating Temperature Range	-10°C~50°C			
Protection Level	IP65	IP21	IP65	IP21
Net Weight(KG)	8.1KG	6.8KG	9KG	7.1KG
Gross Weight(KG)	10.1KG	8.4KG	11KG	8.7KG
Product Dimension(MM)	516×300×136MM	516×300×136MM	516×300×136MM	516×300×136MM
Package Dimension(MM)	592×382×209MM	592×392×218MM	592×382×209MM	592×392×218MM

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

Internal schematic diagram of the product



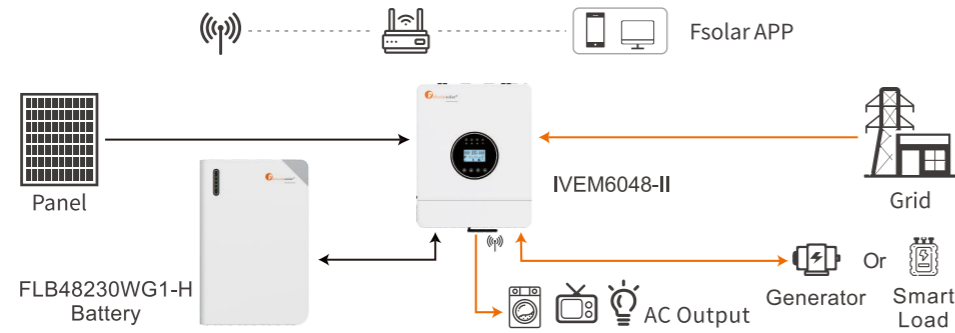
Features

-  Convenient circuit wiring.
-  Superior flow expansion for higher efficiency.
-  Robust high-current handling for reliable performance.

Solar Energy Storage Solutions

Off-grid Residential Energy Storage System

System Configuration: **6kW** ■ DC ■ AC - - - - - Communication



Islands



Houses



Offices



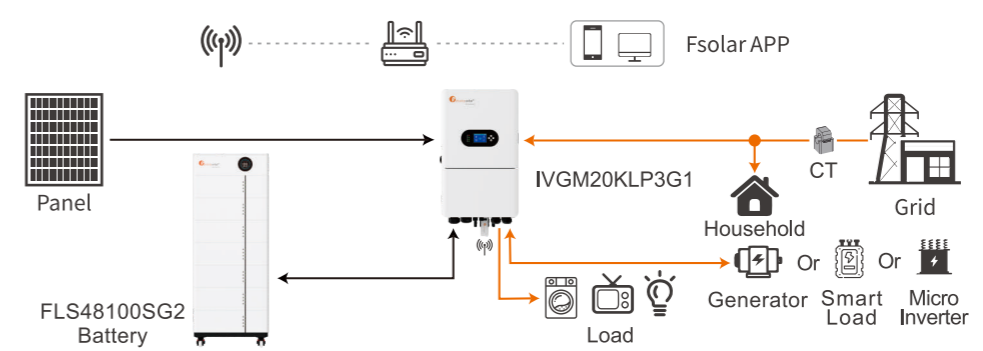
Stores

Benefits:

- Easy Maintenance & Reduced Operational Costs.
- Reliable Power Supply with Emergency Backup.
- Flexible Configuration Based on Power Demands and Site Conditions.
- Remotely Monitor and Control the System via Fsolar App.
- Supports Smart Load Connection with Programmable GEN Port.
- Customizable Smart Load's Output Duration Time.

Hybrid Residential Energy Storage System

System Configuration: **20kW** ■ DC ■ AC - - - - - Communication



Islands



Communication Base Stations



Farms



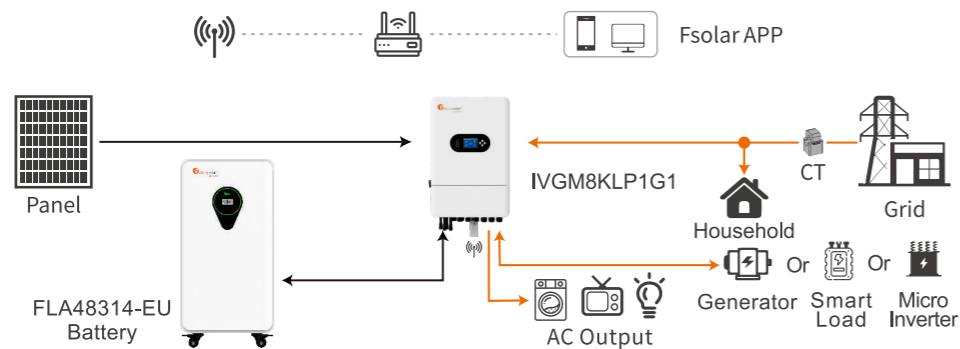
Stores

Benefits:

- Dual-Mode Power Supply, Seamless Switching between Grid-tied and Off-grid Modes.
- Time of Use Function to Save on Electricity Cost.
- Easy Maintenance & Reduced Operational Costs.
- Flexible Configuration Based on Power Demands and Site Conditions.
- Remotely Monitor and Control the System via Fsolar App.
- AC Coupling Functionality: supports integration with grid-tied systems.

Hybrid Residential Energy Storage System

System Configuration: **8kW** ■ DC ■ AC - - - - - Communication



Islands



Communication Base Stations



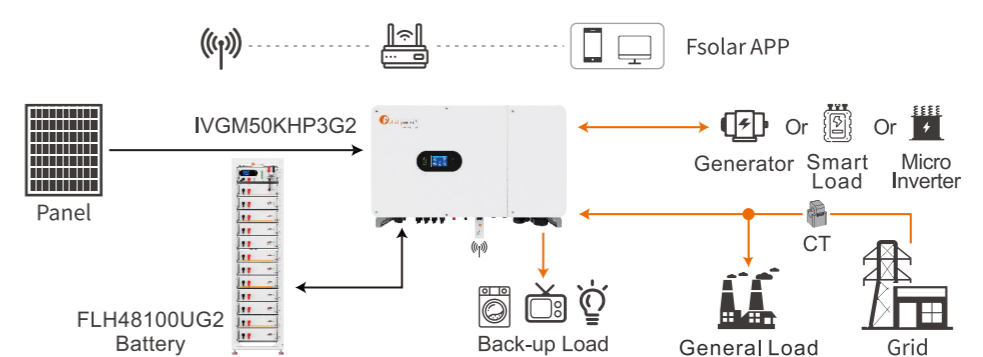
Farms

Benefits:

- Dual-Mode Power Supply, Seamless Switching between Grid-tied and Off-grid Modes.
- Easy Maintenance & Reduced Operational Costs.
- Flexible Configuration Based on Power Demands and Site Conditions.
- Remotely Monitor and Control the System via FSOLAR App.
- Time of Use Function to Save on Electricity Cost.
- Standalone Generator Interface for Automatic Power Switching.
- Customizable Smart load' s Output Duration Time.
- AC Coupling Functionality: supports connection with grid-tied systems.

Hybrid C&I Energy Storage System

System Configuration: **50kW** ■ DC ■ AC - - - - - Communication



Factory



Office building

Benefits:

- Dual-Mode Power Supply, Seamless Switching between Grid-tied and Off-grid Modes.
- Easy Maintenance & Reduced Operational Costs.
- Flexible Configuration Based on Power Demands and Site Conditions.
- Remotely Monitor and Control the System via FSOLAR App.
- Standalone Generator Interface for Automatic Power Switching.
- Customizable Smart load' s Output Duration Time.
- AC Coupling Functionality: supports connection with grid-tied systems.

USER CASES

Residential Solar Energy Storage System



England

» House » 20kW+45kWh



Sweden

» House » 20kW+30kWh



England

» House » 10kW+10kWh

Small to Medium C&I Solar Energy Storage System



German

» Small-size Factory » 50kW+122.88kWh



Thailand

» Entertainment Center » 300kW+720kWh



England

» House » 10kW+15kWh



Morocco

» House » 8kW+15kWh



Poland

» Warehouse & Office » 100kW+122.88kWh



Mexico

» Hotel » 100kW+163.84kWh