Guangzhou Felicity Solar Technology Co.,Ltd.

- www.felicitysolar.com
- R sales@felicitysolar.com
- 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 Website



Facebook



Youtube



Linkedin



Ins



Digital Version of Catalog









About Us Company History



Why Choose Us

Cooperation Advantages

Product Series



Solar Inverter Series

Battery Pack Series

All-in-one System

FSOLAR Smart Energy Management Platform

Key Components



Solar Energy Storage Solutions

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

User Case: C & I Energy Storage

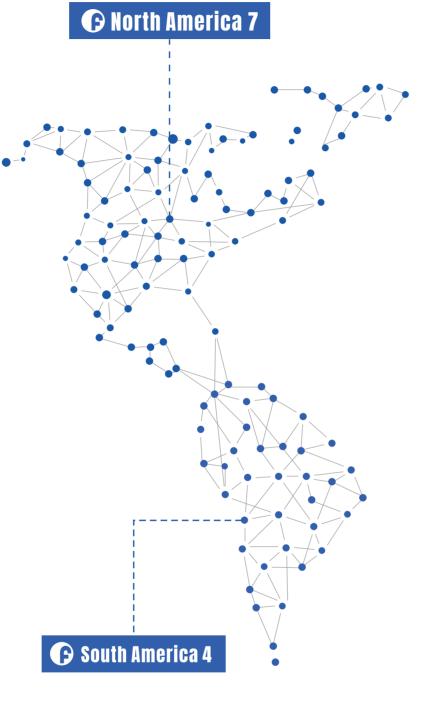


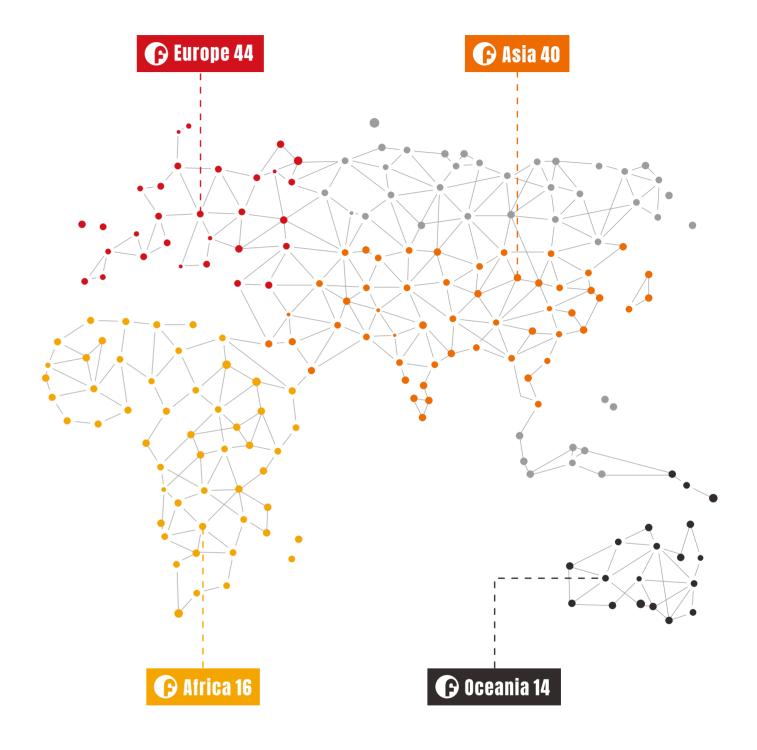
About Us

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



Broad Business Scope





70 % Technical Investment

Overseas Branches

150 + Countries & R&D Teammate





SOLAR INVERTER

Series

Off-grid High-frequency

AC 220V AC 120V

Off-grid Low-frequency

AC 220V AC 120V

Hybrid Solar Inverter

Low-voltage

High-voltage

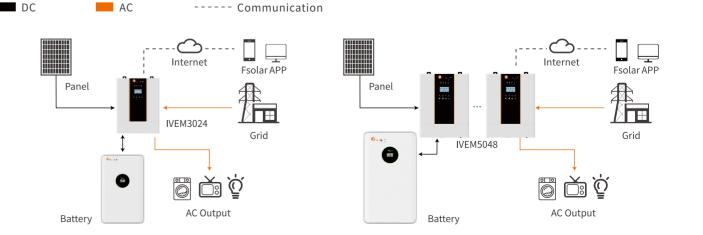
Micro Inverter

Grid-tied | Single Phase | Low Voltage



Model	IVEM3024	IVEM5048	
the Mark Constitution			
Line Mode Specifications			
Rated Output Power(VA)	3000VA	5000VA	
Rated Output Power(W)	3000W	5000W	
Nominal DC Input Voltage	24V	48V	
Nominal Input Voltage)Vac	
Max. AC Input Voltage)Vac	
Nominal Input Frequency		auto Detection)	
Efficiency(Line Mode)	>95% (Rated R Load,	Battery Full Charged)	
Pass Through Without Battery	Υ	es	
Utility Charge Mode Specifications			
Nominal Input Voltage	230	OVac	
Input Voltage Range	90-2	80Vac	
Max. Charge Current	10	00A	
Over Charge Protection	У	es	
Solar Charging & Grid Charging			
Max. PV Open Circuit Voltage	50	00V	
PV Voltage Working Range	120V	-500V	
Max. Input Power	4000W	6000W	
Max. Solar Charging Current	100A	100A	
Max. Charging Current(PV+Grid)	100A	100A	
Max. Input Current	15A	20A	
Min. Startup Voltage	12	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	0.5s @105% ~150%Load	
Surge Rating	2* Rated F	ower for 5s	
Capable of Starting Electric	Υ	es	
Output Short Circuit Protection	Υ	es	
General Specifications			
Operating Temperature	0°C~	55°C	
Range Storage Temperature	-15°C	~60°C	
Net Weight(KG)	10.8KG 13.2KG		
Product Dimension(MM)	395*295*129MM	415*320*129MM	
Package Dimension(MM)	472*372*202MM	494*399*202MM	
Certification	CE-EMC、IEC 62109-1/2、IEC 63027	CE-EMC、IEC 62109-1/2	

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



Off-grid High-frequency Solar Inverter

IVEM Series AC-220V

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

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

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



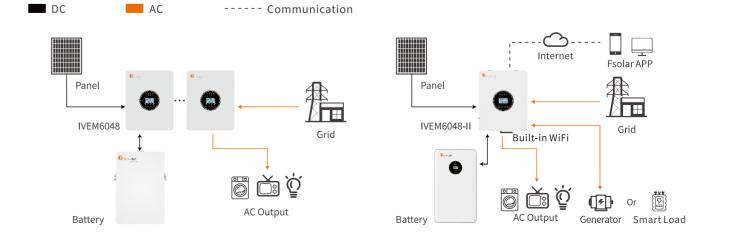
Model	IVEM6048	IVEM6048-II			
Line Mode Specifications					
Rated Output Power(VA)	6000	VA			
Rated Output Power(W)	6000				
Nominal DC Input Voltage	48V				
Nominal Input Voltage	230V	230Vac			
Max. AC Input Voltage	280V	ac			
Nominal Input Frequency	50Hz / 60Hz (Au	to detection)			
Efficiency(Line Mode)	>95% (Rated R Load, B	attery Full Charged)			
Pass Through Without Battery	Yes	5			
Utility Charge Mode Specifications					
Input Voltage Range	90~280	DVac			
Max. Charge Current	100A	120A			
Over Charge Protection	Yes	5			
Solar Charging & Grid Charging					
Max.PV Open Circuit Voltage	500'	V			
PV Voltage Working Range	90V-45	50V			
Max. Input Power	7000W	7500W			
Max. Solar Charging Current	120	A			
Max. Charging Current(PV+Grid)	120	120A			
Max. Input Current	27A				
Min. Startup Voltage	95\	95V			
Inverter Mode Specifications					
Output Voltage Waveform	Pure Sine	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	93%	6			
Over-Load Protection(SMPS load)	5s@≥150% load; 10s @105% ~150% load	Load>200%,200ms / Load >150%,5.5s Load >120%,7.5s / Load >105% 10.5s			
Surge Rating	2* Rated Pov	wer for 5s			
Capable of Starting Electric	Yes	5			
Output Short Circuit Protection	Yes	5			
General Specifications					
Operating Temperature	-10°C~5	50°C			
Range Storage Temperature	-15°C~6				
Net Weight(KG)	11.5KG 12.5KG				
Product Dimension(MM)	420*335*142MM				
Package Dimension(MM)	512*417*216MM				
<u> </u>					

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

Certification

IVEM6048-II

IVEM6048



CE-EMC、IEC 62109-1/2、IEC 63027



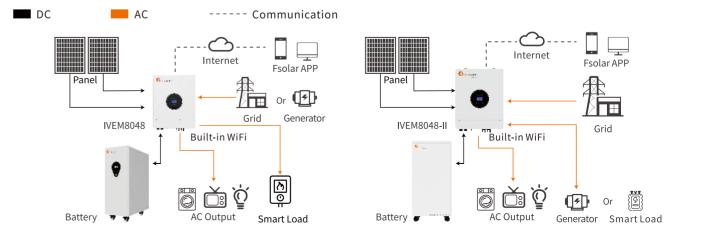
Model	IVEM8048	IVEM8048-II		
Line Mode Specifications				
Rated Output Power(VA)	8000VA			
Rated Output Power(W)		000W		
Nominal DC Input Voltage		48V		
Nominal Input Voltage		OVac		
Max. AC Input Voltage		0Vac		
Nominal Input Frequency	50Hz/60Hz(Auto Detection)		
Efficiency(Line Mode)		l, Battery Full Charged)		
Pass Through Without Battery		Yes		
Utility Charge Mode Specifications				
Input Voltage Range	23	:0Vac		
Over Charge Protection	90-2	280Vac		
Max. Charge Current	1	50A		
Over Charge Protection	,	Yes		
Solar Charging & Grid Charging				
Max.PV Open Circuit Voltage	5	00V		
PV Voltage Working Range	90\	/-450V		
Max. Input Power	10000W(5000)W for single PV)		
Max. Solar Charging Current		50A		
Max. Charging Current(PV+Grid)	1	50A		
Max. Input Current	20A X 2	(MAX 40A)		
Min. Startup Voltage	1	00V		
Number of MPP Trackers / Strings Per MPP Tracker		2/1		
Inverter Mode Specifications				
Output Voltage Waveform	Pure s	ine wave		
Nominal Output Voltage	230\	/ac+5%		
Nominal Output Frequency(Hz)	50±0.3Hz/60Hz	±0.3Hz(Adjustable)		
Parallel Capability	Yes,up	to 6 units		
Peak Efficiency	94	1.5%		
Over-Load Protection(SMPS load)	5s@≥150% load; 1	0s @105% ~150% load		
Surge Rating	2* rated power for 5s			
Capable of Starting Electric	Yes			
Output Short Circuit Protection	Yes			
General Specifications				
Operating Temperature	-10°	C~50°C		
Range Storage Temperature	-15°C~60°C			
Net Weight(KG)	23.7KG			
Gross Weight(KG)	27.4KG			
- 1 1 (0.00)	CO7*4C4*141114			

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

Product Dimension(MM)

Package Dimension(MM)

Certification



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

CE-EMC、IEC 62109-1/2、IEC 63027

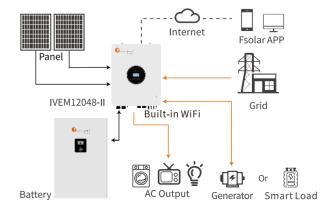


Model	IVEM12048-II

Line Mode Specifications		
Rated Output Power(VA)	12000VA	
Rated Output Power(W)	12000W	
Nominal DC Input Voltage	48V	
Nominal Input Voltage	230Vac	
Max. AC Input Voltage	280Vac	
Nominal Input Frequency	50Hz / 60Hz (Auto Detection)	
Efficiency(Line Mode)	>95% (Rated R Load, Battery Full Charged)	
Pass Through Without Battery	Yes	
Utility Charge Mode Specifications		
Input Voltage Range	230Vac	
Over Charge Protection	90-280Vac	
Max. Charge Current	240A	
Charge Current Regulation	10-240A (Adjustable Unit is 1A)	
Over Charge Protection	Yes	
Solar Charging & Grid Charging		
Max.PV Open Circuit Voltage	500V	
PV Voltage Working Range	90V-450V	
Max. Input Power	15000W(7500W for Single PV)	
Max. Solar Charging Current	240A	
Max. Charging Current(PV+Grid)	240A	
Max. Input Current	27A X 2(MAX 54A)	
Min. Startup Voltage	100V	
Inverter Mode Specifications		
Output Voltage Waveform	Pure sine wave	
Nominal Output Voltage	230Vac+5%	
Nominal Output Frequency(Hz)	50±0.3Hz/60Hz±0.3Hz(Adjustable)	
Parallel Capability	Yes,up to 6 units	
Peak Efficiency	94.5%	
Over-Load Protection(SMPS load)	5s@≥150% load; 10s @105% ~150% load	
Surge Rating	2* rated power for 5s	
Capable of Starting Electric	Yes	
Output Short Circuit Protection	Yes	
General Specifications		
Operating Temperature	-10°C~50°C	
Range Storage Temperature	-15°C~60°C	
Net Weight(KG)	26.8KG	
Product Dimension(MM)	634*476*141MM	
Package Dimension(MM)	726*594*258MM	

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

DC AC ----- Communication



Off-grid High-frequency Solar Inverter

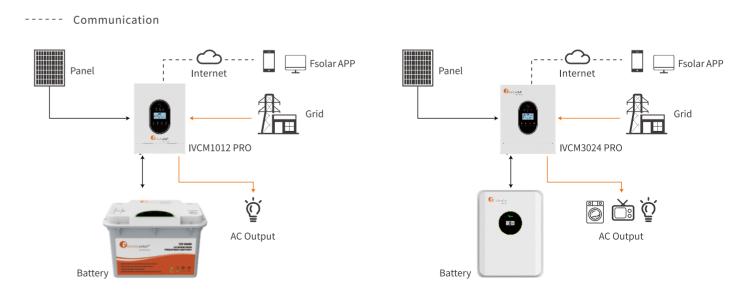
IVCM Series AC-220V



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

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

AC

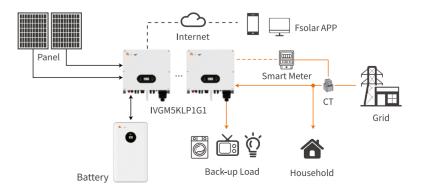




Model	IVGM5KLP1G1
2.00	
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	100A/100A
Max. charging and discharging power	5000W
Battery type	Li-lon / Lead-acid
DC Input Data(PV side)	
Max. Recommended PV Power	6500W (3500W for Single PV)
Max. PV Voltage	550V
Start Oltage	130V
PV Voltage Range	90V-550V
MPPT Voltage Range	100V-500V
MPPT Voltage Range for Full Load	220V-500V
Nominal Voltage	360V
Max. Input Current	15A/15A
Max. Shorted Current	18A/18A
Number of MPP Trackers / Strings Per MPP Tracker	2/1
Grid Data	
Nominal Input Voltage	230Vac
Nominal Grid Frequency	50/60Hz
Max. Input Current	40A
Max. Charge Current	100A
Max. AC Output Power	5000W
AC Output Rated Current	21.7A
Max. Output Current	25A
Max. Continuous AC Passthrough	30A
Power Factor	>0.99
Displacement Power Factor	0.8(Leading) to 0.8(Lagging)
THDI	<3%
AC Output Data(Back Up)	
Rated Output Power	5000VA/5000W
Max. Output Current	30A
Rated AC Output Voltage	230Vac
Rated AC Output Frequency	50/60Hz
General Data	30,00112
Operating Temperature Range	-25°C~60°C,>45°C Derating
Protection Degree	IP65
Cooling Concept	
	Nature RS232/RS485
Communication	CAN/RS485
BMS Communication	
Monitor Module	WiFi/GPRS
Display Installation Style	LCD+LED
Installation Style	Wall-mounted
Warranty	10 Years CELO 21, COD VIDE 4105, EN EGEAD 1, NIDE 007, 2.1, C10/11, NITE 8 LINE 217001 8 LINE 217002, DODTADIA Nº 140 8 5
Grid Regulation	CEI 0-21、G99、VDE 4105、EN 50549-1、NRS 097-2-1、C10/11、NTS & UNE217001 & UNE217002、PORTARIA N° 140 & 5
Safety Regulation	IEC 62109-1/-2
EMC	IEC/EN 61000-6-1/2/3/4、EN/IEC 61000-3-11/12
Net Weight (KG)	32.4KG
Gross Weight(KG)	39.1KG
Product Dimension(MM)	530*493*228MM
Package Dimension(MM)	632*570*315MM

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





Hybrid Solar Inverter

IVGM Series Low-voltage | Split Phase

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

within 10ms for uninterrupted power.

configuration capacity.

micro inverter access.

and three-phase.

🕏 IP65 protection level.

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

🍪 Programmable generator port, support smart load and

Support parallel operation with single-phase, split phase

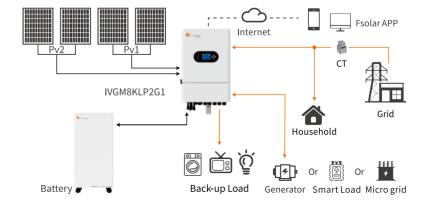
IVGM8KLP2G1

Battery Input Data	Model	IVGM8KLP2G1		
Battery Voltage Range 40V-60V Max. Charging and Discharging Covent 190/190A Battery Type Li-Hon /Lead-acid Max. Recommended PV Power 12000W Max. PV Voltage 500V Start Voltage 100V MPP Voltage Range 950V-550W MPPT Voltage Range Gene 100V MPPT Voltage Range Gene 380V MPPT Voltage Range Gene Full Load 230V-425V MPPT Voltage Range Gene Full Load 380V MPPT Voltage Range Gene Full Load 380 V MPT Voltage Range Gene Full Load 380 V Max. Charting Load 120/240ve (Split Phase), 208 Vex (Z/3 Phase) Substitution Load 380 V <th></th> <th></th>				
Max. Charging and Discharging Power 8000W Batery Type LHon/ead-acid Delinout Data (PV side) LUon/ead-acid Max. Problage 12000W Max. PV voltage 5000V Sart Voltage 1000V PV Voltage Range 900-550V MIPP Voltage Range 1000V PV Voltage Range 1200-425V MIPP Voltage Range 2304-425V MORTHAN (Voltage Range) 380V MIPP Voltage Range for Full Load 380V Nominal Voltage 360×444A Max. Shorted Current 262×26A Max. Shorted Current 22 Max. Shorted Current 22 Nominal Find Protects/ Strings Per MPP Tracker 22 Fride Date 22 Nominal Find Protects/ Strings Per MPP Tracker 8000W Max. Act Output Power 8000W Max. Act Output Edect Systems 8000W Act Output Edect Current 33.3A Max. Coluptate Current 36.7A Max. Collipate Current 40A Rate Output Voltage Range				
Max. Charying and Discharging Power 8.000W Definyur Data (Prior) Li-Ind (Lead-act) Max. Recommended PV Power 1.2000W Max. Recommended PV Power 1.2000W Start Voltage 9.00 V 500W Start Voltage Range 9.00 V 550W MPPT Voltage Range 1.200-425V MPPT Voltage Range for Full Load 2.30 V 425V MPPT Voltage Range for Full Load 3.80 V Work Load Load Load Load Load Load Load Load		40V~60V		
Bittery Type Li-Hon / Lead-acid Cimput Data (Pv die) 1.2000W Max. Recommended PV Power 1.2000W Max. PV Voltage 500V Start Voltage 1.000 W PV Voltage Range 90V-550V MPPT Voltage Range 1.20V-425V MPPT Voltage Range (Prull Load) 2.30V-425V Nominal Voltage 380V PV Input Current 2.84-26A Max. Shorted Current 4.44-44A Number of MPP Trackers / Strings Per MPP Tracker 7.2 Max. Shorted Current 2.80 Year A26A Max. Shorted Current 4.44-44A Number of MPP Trackers / Strings Per MPP Tracker 7.2 William (January Voltage 1.20/240Vac (Splft Phase), 268Vac (23 Phase) Nominal Injust Voltage 1.20/240Vac (Splft Phase), 268Vac (23 Phase) Max. Couput Power 8.000W Max. Couput Raced Current 3.3.3.A Max. Couput Current 8.000W Max. Couput Current 8.000W Max. Couput Current 8.000W Max. Couput Current 9.000Ward (Splft Phase), 268Vac (2/3 Phase) <td>Max. Charging and Discharging Current</td> <td>190A/190A</td>	Max. Charging and Discharging Current	190A/190A		
INTERPOLITATION STATE (1985) Max. Recommended PV Power 1000W Max. PV Voltage 500V Start Voltage 90%-550V MPPT Voltage Range 90%-550V MPPT Voltage Range 120%-425V MPPT Voltage Range for Full Load 230%-425V MORITAGE RANGE OF Full Load 380V Nominal Voltage 380V Nominal Voltage 444-44A Name of MPP Trackers / Strings Per MPP Tracker 2/2 Control MR Trackers / Strings Per MPP Tracker 2/2 Videous Max. Shorted Current 444-44A Nominal Injust Voltage 120/240vac (Split Phase), 208vac (2/3 Phase) Nominal Grid Frequency 50/60Hz Nominal Grid Frequency 50/60Hz Nominal Grid Frequency 8800W AC Output Current 3.3.3 Max. Coutput Current 3.5.4 Max. Continuous AC Passthrough 50 AC Output Current 8000W Max. Output Current 40 Rated Output Frequency 50 Central Data 50%-60%-24% Counting	Max. Charging and Discharging Power	8000W		
Max. RVVoltage 500V Start Voltage 100V PVVoltage Range 90V-550V MPPT Voltage Range 100V-425V MPPT Voltage Range for Full Load 380V MPPT Voltage Range for Full Load 380V Nominal Voltage 380V Mper Voltage Range for Full Load 380V Nominal Voltage 22A*26 Max. Shorted Current 44A4+44A Number of MP Trackers / Strings Per MPP Tracker 2/2 Foid Data 2/2 Nominal Input Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Nominal Grid Frequency 50/66Hz Max. Coutput Rated Current 33.3A Max. Coutput Rated Current 38.3A Max. Coutput Rated Current 8800W Max. Coutput Current 8000W Max. Coutput Current 8000W Rated AC Output Proper 900W Max. Coutput Current 900W Rated AC Output Frequency 50/66Hz Foreneral Data 90 Contral Selection Frequency 50/66Hz General Dat	Battery Type	Li-lon /Lead-acid		
Max. PVVoltage 500V Start Voltage 100V PVVoltage Range 90V-550V MPPT Voltage Range 120V-425V MPPT Voltage Range for Full Load 380V Nominal Voltage Range for Full Load 380V Nominal Voltage 380V Max. Shorted Current 44A4-44A Number of MPP Trackers / Strings Per MPP Tracker 2/2 Grid James 120/240Vac (Split Phase), 208Vac (Z/3 Phase) Nominal Individuage 120/240Vac (Split Phase), 208Vac (Z/3 Phase) Nominal Grid Frequency 50/60Hz Max. AC Output Power 8800W AC Output Face (Current 33.3A Max. Output Current 50/A Max. Output Current 90/A Max. Output Data (Back Up) 8000W Rated AC Output Power 8000W Max. Output Data (Back Up) 40A Rated AC Output Power 900W Max. Output Current 40A Rated AC Output Power 10A Max Output Current 40A Rated AC Output Frequency 50/60Hz	DC Input Data(PV side)			
Start Voltage 100V PV Voltage Range 90V-550V MPPT Voltage Range 120V-425V MPPT Voltage Range for Full Load 230V-425V Mornial Voltage 380V Puriput Current 26A4-26A Max. Shorted Current 44A4-44A Number of MPP Trackers / Strings Per MPP Tracker 2/2 Orif Ota Wominal Input Voltage Nominal Input Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Nominal Grid Frequency 50/604z Max. AC Output Power 8800W AC Output Rated Current 33.3A Max. Continuous AC Passthrough 50A AC Output Dean (Elect.) 8000W Max. Output Current 40A AREd Output Progress 8000W Max. Output Current 40A Rated A Coutput Prequency 50/604z Rated A Coutput Prequency 50/604z Central Data 10 Central Data 10 Central Data 10 Cooling Concept 10 C	Max. Recommended PV Power	12000W		
PV Votage Range 90%-550V MPPT Votage Range for Full Load 120%-425V Nominal Votage 380V PV Input Current 6262-626A Naminal Votage 1268-626A Naminar Votage 1268-62A Name of MPP Trackers / Strings Per MPP Tracker 72 Fold Data 120/240Vac (Split Phase), 208Vac (2/3 Phase) Nominal Input Votage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Nominal Grid Frequency 50/60HZ AC Output Rated Current 8800W AC Output Rated Current 9800W AC Output Rated Current 9800W Max. Continuous AC Pasthrough 50A Max. Coutput Carrent 8000W Max. Coutput Carrent 9000W Max. Coutput Carrent 9000W Max. Coutput Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Max. Output Current 9000W Max. Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Max do Utput Voltage 150/60Vac (Split Phase), 208Vac (2/3 Phase) Maxed Coutput Voltage 150/60Vac (Split Phase), 208Vac (2/3 Phase) <td< td=""><td>Max. PV Voltage</td><td>500V</td></td<>	Max. PV Voltage	500V		
MPPT Voltage Range 120V-425V MPPT Voltage Range for Full Load 230V-425W MPPT Voltage Range for Full Load 380V Nominal Voltage 380V pVInput Current 4A6-45A Max. Shorted Current 2/2 Number of MP Trackers / Strings Per MPP Tracker 2/2 Wide Data 2/2 Nominal Gird Frequency 50/60Hz Max. Coutput Power 8800W AC Output Rated Current 33.7A Max. Coutput Current 36.7A Max. Coutput Current 9000W Max. Coutput Current 9000W Max. Coutput Power 8000W Max. Coutput Current 40A Max. Output Current 40A Max. Output Current 40A Max. Output Frequency 50/60Hz Rated AC Output Progress 120/240/ass [pit Phase), 208/as (2/3 Phase) Rated AC Output Frequency 9000W Protection Degree 1965 Cooling Concept 1965 Cooling Concept 1975 Cooling Concept 1975	Start Voltage	100V		
MPPT Voltage Range for Full Load 380V Nominal Voltage 380V Vincent 526x-25A Max. Shorted Current 44A+44A Number of MPP Trackers' Strings Per MPP Tracker 2/2 Toff Data 120/240vac (Split Phase), 208vac (2/3 Phase) Nominal Input Voltage 120/240vac (Split Phase), 208vac (2/3 Phase) Nominal Grid Frequency 50/60Hz Max. AC Output Power 88000W AC Output Rated Current 3.6.7A Max. Output Current 50A Max. Continuous AC Passthrough 50A AC Output Data(Back Up) 8000W 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 Ceneral Date 190 Colorige Concept 190 Colorige Concept 190 Colorige Concept 8800W BMS Communication R5232/R5485 BMS Communication R5232/R5485 BMS Communication 10/96x8	PV Voltage Range	90V-550V		
Nominal Voltage 3880V pv Input Current 6264+26A Max Shorted Current 44A+44A Number of MPP Trackers / Strings Per MPP Tracker 2/2 Control Current Mominal Input Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Nominal Grid Frequency 50/60Hz Nominal Grid Frequency 8800W AC Output Red Current 83.3A Max. CO Output Red Current 33.3A Max. Coutput Current 60.0A Max. Coutput Current 8000W Rated Output Power 8000W Rated AC Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Frequency 50/60Hz Control Current Rated AC Output Frequency 6 Control Current 6 Rated AC Output Frequency 6	MPPT Voltage Range	120V-425V		
Pumpur Current	MPPT Voltage Range for Full Load	230V-425V		
Max. Shorted Current 44A+44A Number of MPP Trackers / Strings Per MPP Tracker 2/2 Grid Data 2/2 Nominal Input Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Nominal Grid Frequency 50/60Hz Max. AC Output Power 88000W AC Output Edd Current 33.3A Max. Coutput Current 36.7A Max. Coutput Statistiles Up) 70/20 (2015) Rated Output Power 80000W Max. Output Current 40A Rated AC Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Frequency 50/60Hz General Data 25°C-60°C, 25°C-60°C, 25°C Detaiting Forection Degree 1965 Cooling Concept Smart Cooling Cooling Concept Smart Cooling Communication RS232/RS485 Monitor Module William Sulps Miss Communication CAN/RS485 Monitor Module Wall-mounted Warranty 10 years S	Nominal Voltage	380V		
Number of MPP Trackers / Strings Per MPP Tracker 2/2 Grid Data Comman Input Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Nominal Grid Frequency 50/60Hz Max. AC Output Power 8800W AC Output Rated Current 3.3.A Max. Output Current 3.6.7 A Max. Output Data (Back UP) 50A AC Output Data (Back UP) 8000W Rated Output Power 8000W Max. Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Frequency 5060Hz General Data 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Frequency 50/60Hz Operating Temperature Range -25°C-60°C, 45°C Derating Protection Degree 1P6 Cooling Concept Smart Cooling Communication RS323/R5485 Monitor Module FN 50/40 Million Installation Style 40 40 Marranty 1	pv Input Current	26A+26A		
Grid Data 120/240Vac (Split Phase), 208Vac (2/3 Phase) Nominal Input Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Max. AC Output Power 88000W AC Output Rated Current 3.3.3A Max. Output Current 36.7A Max. Continuous AC Passthrough 50A AC Output Data (Back Up) 8000W Rated Output Power 8000W Max. Output Current 40A Max. Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Frequency 50/60Hz General Data 50/60Hz General Data 50/60Hz Coperating Temperature Range -25°C-60°C, -45°C Derating Protection Degree 1965 Cooling Concept Smart Cooling Communication RS32/RS485 MMS Communication RS32/RS485 Monitor Module Will-John Charley Septiment Display LU-HED Installation Style Wall-mounted Warranty 10 years G	Max. Shorted Current	44A+44A		
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. Coutput Current 36.7A Max. Continuous AC Passthrough 50A AC Output Data(Back Up) 8000W 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 Output Frequency 50/60Hz General Data Output Frequency 50/60Hz General Data 25°C-60°C,>45°C Derating Protection Degree IP65 Cooling Concept Saction Series College Communication R5232/R5485 BMS Communication CAN/R5485 Monitor Module WiFi/GPRS Display 10 years Orid Regulation (In progress) VDE 410S. CEI0-21, G99, NRS 097-2-1, EN 50549-10, NC RFG(Poland), EN 50549-11	Number of MPP Trackers / Strings Per MPP Tracker	2/2		
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 Date(Back Up) 8000W Rated Output Power 8000W Max. Output Current 40A Rated AC Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Voltage 150/60Hz Actual Courtur Frequency 50/60Hz Operating Temperature Range -25°C-60°C, -45°C Derating Protection Degree IP65 Cooling Concept Smart Cooling Communication R5323/R5485 BMS Communication R5323/R5485 Monitor Module WiFi-(CPRS Display LCD-LED Installation Style WiFi-(CPRS Using Power Style WiFi-(CPRS Warranty 10 years Grid Regulation (In progress) VDE 4105. CE10-21. G99. NRS 097-2-1. EN 50549-1. EN 50549-1. NC RFG(Poland), EN 50549-1. Polande, En 50549-1. Po	Grid Data			
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AC Output Rated Current 33.3A Max. Output Current 36.7A Max. Continuous AC Passthrough 50A AC Output Data(Back Up) 8000W Max. Output Current 40A Rated AC Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Frequency 50/60Hz Faceral Data 1965 Consing Temperature Range -25°C-60°C,~45°C Derating Protection Degree 1965 Cooling Concept Smart Cooling Communication RS232/RS485 Monitor Module 40A/RS485 Monitor Module 40A/RS485 Monitor Module 40A/RS485 Marranty LCD+LED Installation Style Wall-mounted Warranty 10 years Grid Regulation (In progress) VDE 4105. CEI0-21, G99, NRS 097-2-1. EN 50549-1. N. CRFG (Poland), EN 50549-1. EN 50549-1. N. CRFG (Poland), EN 50549-1. EN 50549-1. N. CRFG (Poland), EN 50549-1. N. CRFG (Poland), EN 50549-1. A. EN	Max. AC Output Power	8800W		
Max. Output Current 36.7A Max. Continuous AC Passthrough 50A AC Output Data(Back Up) 80000W Max. Output Power 80000W Max. Output Current 40A Rated AC Output Voltage 120/240Vac (Split Phase), 208Vac (2/3 Phase) Rated AC Output Frequency 50/60Hz General Data -25°C-60°C,~45°C Derating Protection Degree IP65 Cooling Concept Smart Cooling Cooling Concept Smart Cooling Communication RS232/RS485 Monitor Module WiFi/GPRS Unique Mariant 10 years Using Jay LCD+LED Installation Style Wall-mounted Warranty 10 years Grid Regulation (In progress) VDE 410S, CEI0-21, G99, NRS 097-2-1, EN 50549-10, NC RFG(Poland), EN 50549-10, NC RFG(Poland), EN 50549-1, IN 50549-1, IN 50549-10, NC RFG(Poland), EN 50549-1, IN 50549-1				
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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 Snart Cooling Communication R5232/R5485 BMS Communication CAN/R5485 Monitor Module WiFi/GPRS Display LCD+LED Installation Style Wall-mounted Warranty 10 years Grid Regulation(In progress) VDE 4105. CEI0-21. G99. NRS 097-2-1. EN 50549-10. NC RFG(Poland), EN 50549-11. PN 50549-10. NC RFG(Poland), EN 50549-11/-10+Netherlands. PPDS. NTS & UNE217001 & UNE217002, UL1741 Safety Regulation IEC (E0 109-1/-2 EMC IEC/EN 61000-6-13/3/4. EN/IEC 61000-3-11/12 Net Weight (KG) 3.3KG Gross Weight (KG) 40.5KG Product Dimension(MM) 430°654°243MM		50A		
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Rated AC Output Frequency50/60HzGeneral DataCoperating Temperature Range-25°C-60°C,>45°C DeratingProtection DegreeIP65Cooling ConceptSmart CoolingCommunicationRS232/RS485BMS CommunicationCAN/RS485Monitor ModuleWiFi/GPRSDisplayLCD+LEDInstallation StyleWall-mountedWarranty10 yearsGrid Regulation (In progress)VDE 410S. CEI 0-21, G99. NRS 097-2-1. EN 50549-10. NC RFG (Poland). EN 50549-11/10+Netherlands. PPDS. NTS & UNE217001 & UNE217002. UL1741EMCIEC 62109-1/-2EMCIEC 62109-1/-2EMCIEC/EN 61000-6-1/2/3/4. EN/IEC 61000-3-11/12Net Weight (KG)3.5 KGGross Weight (KG)40.5 KGProduct Dimension (MM)430°654°243MM	Max. Output Current	40A		
Rated AC Output Frequency50/60HzGeneral DataCoperating Temperature Range-25°C-60°C,>45°C DeratingProtection DegreeIP65Cooling ConceptSmart CoolingCommunicationRS232/RS485BMS CommunicationCAN/RS485Monitor ModuleWiFr/GPRSDisplayLCD+LEDInstallation StyleWall-mountedWarranty10 yearsGrid Regulation (In progress)VDE 410S. CEI 0-21, G99. NRS 097-2-1. EN 50549-10. NC RFG (Poland). EN 50549-11/-10+Netherlands. PPDS. NTS & UNE217001 & UNE217002. UL1741EMCIEC 62109-1/-2EMCIEC 62109-1/-2EMCIEC/EN 61000-6-1/2/3/4. EN/IEC 61000-3-11/12Net Weight (KG)3.5 KGGross Weight (KG)40.5 KGProduct Dimension (MM)430°654°243MM	Rated AC Output Voltage	120/240Vac (Split Phase), 208Vac (2/3 Phase)		
Operating Temperature Range-25°C-60°C,>45°C DeratingProtection DegreeIP65Cooling ConceptSmart CoolingCommunicationRS232/RS485BMS CommunicationCAN/RS485Monitor ModuleWiFi/GPRSDisplayLCD+LEDInstallation StyleWall-mountedWarranty10 yearsGrid Regulation(In progress)VDE 4105, CEI0-21, G99, NRS 097-2-1, EN 50549-1, EN 50549-10, NC RFG(Poland), EN 50549-1/-10+Netherlands, PPDS, NTS & UNE 217001 & UNE 217002, UL1741EMCIEC/EN 61000-6-1/2/3/4, EN/IEC 61000-3-11/12Net Weight(KG)33.5KGGross Weight(KG)40.5KGProduct Dimension(MM)430°654*243MM	Rated AC Output Frequency			
Operating Temperature Range-25°C-60°C,>45°C DeratingProtection DegreeIP65Cooling ConceptSmart CoolingCommunicationRS232/RS485BMS CommunicationCAN/RS485Monitor ModuleWiFi/GPRSDisplayLCD+LEDInstallation StyleWall-mountedWarranty10 yearsGrid Regulation(In progress)VDE 4105, CEI0-21, G99, NRS 097-2-1, EN 50549-1, EN 50549-10, NC RFG(Poland), EN 50549-1/-10+Netherlands, PPDS, NTS & UNE 217001 & UNE 217002, UL1741EMCIEC/EN 61000-6-1/2/3/4, EN/IEC 61000-3-11/12Net Weight(KG)33.5KGGross Weight(KG)40.5KGProduct Dimension(MM)430°654*243MM	General Data			
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Cooling ConceptSmart CoolingCommunicationRS232/RS485BMS CommunicationCAN/RS485Monitor ModuleWiFi/GPRSDisplayLCD+LEDInstallation StyleWall-mountedWarranty10 yearsGrid Regulation(In progress)VDE 4105, CEI0-21, G99, NRS 097-2-1, EN 50549-1, EN 50549-10, NC RFG(Poland), EN 50549-1/-10+Netherlands, PPDS, NTS & UNE217001& UNE217002, UL1741EMCIEC 62109-1/-2EMCIEC/EN 61000-6-1/2/3/4, EN/IEC 61000-3-11/12Net Weight(KG)33.5KGGross Weight(KG)40.5KGProduct Dimension(MM)430*654*243MM	Protection Degree	IP65		
CommunicationRS232/RS485BMS CommunicationCAN/RS485Monitor ModuleWiFi/GPRSDisplayLCD+LEDInstallation StyleWall-mountedWarranty10 yearsGrid Regulation (In progress)VDE 4105. CEI0-21. G99. NRS 097-2-1. EN 50549-1. NC RFG(Poland). EN 50549-1/-10+Netherlands. PPDS. NTS & UNE217001 & UNE217002. UL1741Safety RegulationIEC 62109-1/-2EMCIEC/EN 61000-6-1/2/3/4. EN/IEC 61000-3-11/12Net Weight (KG)33.5KGGross Weight (KG)40.5KGProduct Dimension (MM)430*654*243MM				
BMS CommunicationCAN/RS485Monitor ModuleWiFi/GPRSDisplayLCD+LEDInstallation StyleWall-mountedWarranty10 yearsGrid Regulation(In progress)VDE 4105, CE10-21, G99, NRS 097-2-1, EN 50549-1, EN 50549-10, NC RFG(Poland), EN 50549-1/-10+Netherlands, PPDS, NTS & UNE217001 & UNE217002, UL1741Safety RegulationIEC 62109-1/-2EMCIEC/EN 61000-6-1/2/3/4, EN/IEC 61000-3-11/12Net Weight(KG)33.5KGGross Weight(KG)40.5KGProduct Dimension(MM)430*654*243MM		· · · · · · · · · · · · · · · · · · ·		
Monitor ModuleWiFi/GPRSDisplayLCD+LEDInstallation StyleWall-mountedWarranty10 yearsGrid Regulation(In progress)VDE 4105, CEI 0-21, G99, NRS 097-2-1, EN 50549-10, NC RFG(Poland), EN 50549-1/-10+Netherlands, PPDS, NTS & UNE217001 & UNE217002, UL1741Safety RegulationIEC 62109-1/-2EMCIEC/EN 61000-6-1/2/3/4, EN/IEC 61000-3-11/12Net Weight(KG)33.5KGGross Weight(KG)40.5KGProduct Dimension(MM)430*654*243MM				
DisplayLCD+LEDInstallation StyleWall-mountedWarranty10 yearsGrid 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, UL1741Safety RegulationIEC 62109-1/-2EMCIEC/EN 61000-6-1/2/3/4, EN/IEC 61000-3-11/12Net Weight(KG)33.5KGGross Weight(KG)40.5KGProduct Dimension(MM)430*654*243MM				
Installation StyleWall-mountedWarranty10 yearsGrid Regulation(In progress)VDE 4105, CEI 0-21, G99, NRS 097-2-1, EN 50549-10, NC RFG(Poland), EN 50549-1/-10+Netherlands, PPDs, NTS & UNE217001 & UNE217002, UL1741Safety RegulationIEC 62109-1/-2EMCIEC/EN 61000-6-1/2/3/4, EN/IEC 61000-3-11/12Net Weight(KG)33.5KGGross Weight(KG)40.5KGProduct Dimension(MM)430*654*243MM				
Warranty10 yearsGrid Regulation(In progress)VDE 4105, CEI 0-21, G99, NRS 097-2-1, EN 50549-10, NC RFG(Poland), EN 50549-1/-10+Netherlands, PPDS, NTS & UNE217001 & UNE217002, UL1741Safety RegulationIEC 62109-1/-2EMCIEC/EN 61000-6-1/2/3/4, EN/IEC 61000-3-11/12Net Weight(KG)33.5KGGross Weight(KG)40.5KGProduct Dimension(MM)430*654*243MM				
Grid Regulation(In progress) VDE 4105、CEI 0-21、G99、NRS 097-2-1、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	•			
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	· ·	VDE 4105、CEI 0-21、G99、NRS 097-2-1、EN 50549-1、EN 50549-10、NC RFG(Poland)、		
Net Weight(KG) 33.5KG Gross Weight(KG) 40.5KG Product Dimension(MM) 430*654*243MM	Safety Regulation	IEC 62109-1/-2		
Net Weight(KG) 33.5KG Gross Weight(KG) 40.5KG Product Dimension(MM) 430*654*243MM	· -	IEC/EN 61000-6-1/2/3/4、EN/IEC 61000-3-11/12		
Gross Weight(KG) 40.5KG Product Dimension(MM) 430*654*243MM				
Product Dimension(MM) 430*654*243MM				
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	, ,	787*547*358MM		

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

DC AC





Hybrid Solar Inverter

IVGM Series Low-voltage | Three Phase

Features

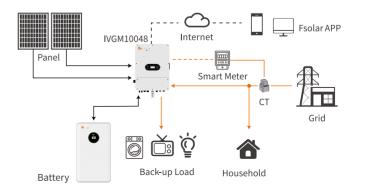
- Support WiFi for mobile monitoring.
- Max. charging / discharging current of 200A.
- AC couple to retrofit existing solar system.
- Support storing energy from diesel generator.
- Switch power supply within 20ms.
- P65 protection level.

IVGM10048

Model	IVGM10048
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	200A/200A
Max. charging and discharging power	10000W
Battery type	Li-lon / Lead-acid
DC Input Data(PV side)	
Max. Recommended PV Power	13000W (6500W for Single PV)
Max. PV Voltage	900V
Start Oltage	180V
PV Voltage Range	160V-900V
MPPT Voltage Range	200V-850V
MPPT Voltage Range for Full Load	450V-850V
Nominal Voltage	720V
Max. Input Current	15A/15A
Max. Shorted Current	18A/18A
Number of MPP Trackers / Strings Per MPP Tracker	2/1
Grid Data	
Nominal Input Voltage	L1/L2/L3/N/PE, 230/400Vac
Nominal Grid Frequency	50/60Hz
Max. Input Current	30A
Max. Charge Current	200A
Max. AC Output Power	10000W
AC Output Rated Current	14.5A
Max. Output Current	18A
Max. Continuous AC Passthrough	30A
Power Factor	>0.99
Displacement Power Factor	0.8(Leading) to 0.8(Lagging)
THDI	<3%
AC Output Data(Back Up)	7070
Rated Output Power	10000VA/10000W
Max. Output Current	30A
Rated AC Output Voltage	L1/L2/L3/N/PE, 230/400Vac
Rated AC Output Frequency	50/60Hz
General Data	34,000
Operating Temperature Range	-25°C~60°C,>45°C Derating
Protection Degree	IP65
Cooling Concept	Smart cooling
Communication	RS232/RS485
BMS Communication	CAN/RS485
Monitor Module	WiFi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty	10 Years
Grid Regulation	VDE-AR-N 4105
Safety Regulation	IEC 62109-1/-2
Net Weight (KG)	38.9KG
Gross Weight(KG)	36.9NG 47.1KG
Product Dimension(MM)	47.1NG 655*475*266MM
Package Dimension(MM)	792*597*351MM
i acrage Dimension(MM)	1AT 2A132TWM

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





Hybrid Solar Inverter

IVGM Series High-voltage | Three Phase

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

and discharge current up to 50A.

Auto restart while AC is recovering.

and micro inverter access.

ኬ) 12pcs in parallel maximum.

IP65 protection level.

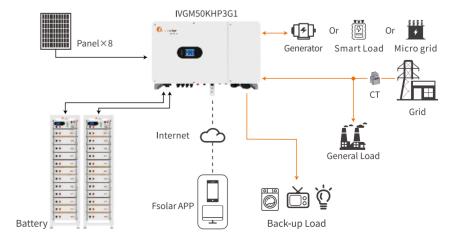
Programmable generator port, support smart load

IVGM50KHP3G1

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

DC A

----- Communication





SOLAR BATTERY Series

LifeP04 Battery Pack

Low-voltage

High-voltage

Lead-acid Battery

GEL Battery

OPzV Battery

LiFePO4 Battery Pack

Low-voltage FLA Series

FLA12100



FLA12200

FLA12300

Model	FLA12100	FLA12200	FLA12300		
Battery Type	LiFePO4				
Nominal Energy	1.28kWh 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] Max. Continuous Charge/Discharge Current is Affected by Temperature and SOC.



Longer Lasting LiFePO4 Battery



Real-time Status via LCD Screen & LED



Support 16 Pcs in Parallel



Wide Inverter Compatibility



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

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

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



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

^[1] 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





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

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

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



Nominal Voltage 51.2V 448.6-57.6V 448.6-57.6V<	Model	FLA48100	FLA48200	FLA48200-P	FLA48230	FLA48250	
Nominal Energy 5.12kWh 10kWh 10.5kWh 11.8kWh 12.5kWh Nominal Voltage 51.2V 44.8-57.6V							
Nominal Voltage 51.2V 44.8-57.6V 45.5D 47.5D	Battery Type		LiFePO4				
Operating Voltage 44.8-57.6V 45.50A \$150A \$150A \$150A \$200A 200A 2	Nominal Energy	5.12kWh	10kWh	10.5kWh	11.8kWh	12.5kWh	
Recommend Charge/Discharge Current[1] ≤100A ≤120A ≤150A ≥150A 200A	Nominal Voltage	51.2V	51.2V	51.2V	51.2V	51.2V	
Recommend Charge/Discharge Power[1] ≤5,000W ≤6,000W ≤7,500W ≥00A	Operating Voltage	44.8-57.6V	44.8-57.6V	44.8-57.6V	44.8-57.6V	44.8-57.6V	
Maximum Charge/Discharge Current(15s) 150A 150A 200A 200A 200A Maximum Charge/Discharge Power(15s) 7,500W 7,500W 10,000W 10,000W 10,000W Scalability Max. 15 pcs in Parallel(76.8kWh) Max. 15 pcs in Parallel(157.4kWh) Max. 15 pcs in Parallel(176.6kWh) In Parallel(176.6kWh)<	Recommend Charge/Discharge Current[1]	≤100A	≤120A	≤150A	≤150A	≤150A	
Maximum Charge/Discharge Power(15s) 7,500W 7,500W 10,000W 10,000W 10,000W Scalability Max. 15 pcs in Parallel(176.8kWh) Max. 15 pcs in Parallel(150kWh) Max. 15 pcs in Parallel(157.4kWh) Max. 15 pcs in Parallel(176.6kWh)	Recommend Charge/Discharge Power[1]	≤5,000W	≤6,000W	≤7,500W	≤7,500W	≤7,500W	
Scalability Max. 15 pcs in Parallel (76.8kWh) Max. 15 pcs in Parallel (150kWh) Max. 15 pcs in Parallel (176.6kWh)	Maximum Charge/Discharge Current(15s)	150A	150A	200A	200A	200A	
In Parallel(16.8kWh) In Parallel(150kWh) In Parallel(157.4kWh) In Parallel(176.6kWh) In Parallel(180kWh) In Parallel(176.6kWh) In Parallel(186.6kmh) In Parallel(186.6kmh) In Parallel(186.6kmh) In Parallel(186.6kmh) In Parallel(176.6kWh) In Parallel(176.6kWh) In Parallel(176.6kWh) In Parallel(176.6kWh) In Parallel(176.6kWh) In Parallel(176.6kWh) In Parallel(186.6kmh) In Paral	Maximum Charge/Discharge Power(15s)	7,500W	7,500W	10,000W	10,000W	10,000W	
Communication Protection Degree IP21 Cycle Life > 6000 Cycles (25°C±2°C,0.5C/0.5C,90%DOD,70%EOL) Charging Temperature Range Discharging Temperature Range Discharging Temperature Range Discharging Temperature Range LCD+LED Installation Wall-Mounted / Floor-Mounted Protection Built-in smart BMS, Breaker, Fuse Warranty Period Certification UN38.3, CE-EMC, IEC 62619, CB IEC 62619 Product Weight 48KG 68KG 92KG 92KG 92KG 97KG	Scalability		'		'	Max. 15 pcs in Parallel(187kWh)	
Protection Degree Cycle Life ≥ 6000 Cycles (25°C±2°C,0.5C/0.5C,90%DOD,70%EOL) Charging Temperature Range 0°C~+55°C Discharging Temperature Range LCD+LED Installation Wall-Mounted / Floor-Mounted Protection Built-in smart BMS, Breaker, Fuse Warranty Period Certification UN38.3、CE-EMC、 IEC 62619 Product Weight 48KG 68KG 92KG 92KG 97KG	Depth of Discharge(DOD)			≥95%			
Cycle Life Section	Communication			RS485/CAN			
Charging Temperature Range Discharging Temperature Range Display Type LCD+LED Installation Wall-Mounted / Floor-Mounted Protection Built-in smart BMS, Breaker, Fuse Warranty Period Certification UN38.3、CE-EMC、 IEC 62619 Product Weight Wall-Mounted / Floor-Mounted UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC、 IEC 62619 Product Weight WARG O"C~+55°C UN38.3、CE-EMC UN38.3、CE-EMC IEC 62619 UN38.3、CE-EMC IEC 62619 UN38.3、CE-EMC IEC 62619 Product Weight	Protection Degree			IP21			
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 TYears Certification UN38.3、CE-EMC、IEC 62619 Product Weight WE SEC 62619 UN38.3、CE-EMC IEC 62619 UN38.3、CE-EMC IEC 62619 Product Weight WE SEC 62619 UN38.3、CE-EMC IEC 62619 UN38.3、CE-EMC IEC 62619 Product Weight	Cycle Life		≥ 6000 Cycles (2	5°C±2°C,0.5C/0.5C,90	0%DOD,70%EOL)		
Display Type Installation Wall-Mounted / Floor-Mounted Protection Built-in smart BMS, Breaker, Fuse Warranty Period Tyears Certification UN38.3, CE-EMC, IEC 62619 Product Weight Wall-Mounted / Floor-Mounted UN38.3, CE-EMC, UN38.3, CE-EMC, IEC 62619 UN38.3, CE-EMC, IEC 62619 UN38.3, CE-EMC, IEC 62619 UN38.3, CE-EMC, IEC 62619 ON38.3, CE-EMC, IEC 62619 ON3	Charging Temperature Range			0°C~+55 °C			
Installation Wall-Mounted / Floor-Mounted Protection Built-in smart BMS, Breaker, Fuse Warranty Period 7 Years Certification UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC UN38.3 CE-EMC UN38.3 CE-E	Discharging Temperature Range			-20°C~+55°C			
Protection Built-in smart BMS, Breaker, Fuse Warranty Period 7 Years Certification UN38.3、CE-EMC、IEC 62619 UN38.3、CE-EMC、IEC 62619 UN38.3、CE-EMC、IEC 62619 UN38.3、CE-EMC、IEC 62619 UN38.3、CB-EMC、IEC 62619 UN38.3、CB-EMC、IEC 62619 UN38.3、CB-EMC、IEC 62619 UN38.3、CB-EMC、IEC 62619 UN38.3、CB-EMC、IEC 62619 UN38.3、CB-EMC、IEC 62619 UN38.3 CB-EMC IEC 62619	Display Type			LCD+LED			
Warranty Period 7 Years Certification UN38.3、CE-EMC、IEC 62619 UN38.3、CE-EMC、IEC 62619 UN38.3、CE-EMC、IEC 62619 UN38.3、CE-EMC、IEC 62619 UN38.3、CB IEC 62619 UN38.3、CB IEC 62619 ON38.3 CE-EMC IEC 62619 UN38.3 CE-EMC IEC 62619 ON38.3 CE-EMC IEC 62619 ON38.3 CE-EMC IEC 62619 UN38.3 CE-EMC IEC 62619 ON38.3 CE-EMC IEC 62619	Installation		Wall	-Mounted / Floor-Mou	inted		
Certification UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC、 IEC 62619, CB UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC、 IEC 62619 UN38.3、CE-EMC NEC NEC NEC NEC NEC NEC NEC NEC NEC NE	Protection		Built	-in smart BMS, Breaker,	Fuse		
Certification IEC 62619 IEC 62619 IEC 62619 UN38.3, CB IEC 62619 Product Weight 48KG 68KG 92KG 92KG 97KG	Warranty Period			7 Years			
	Certification				UN38.3、CB	UN38.3、CE-EMC、 IEC 62619	
Package Weight 55KG 88KG 115.6KG 115.6KG 115KG	Product Weight	48KG	68KG	92KG	92KG	97KG	
2 0	Package Weight	55KG	88KG	115.6KG	115.6KG	115KG	
Product Dimension 663X400X178MM 735X433X188MM 783X450X274MM 783X450X274MM 783X450X27	Product Dimension	663X400X178MM	735X433X188MM	783X450X274MM	783X450X274MM	783X450X274MM	
Package Dimension 782X522X262MM 849X550X362MM 900X570X450MM 900X570X450MM 900X570X45	Package Dimension	782X522X262MM	849X550X362MM	900X570X450MM	900X570X450MM	900X570X450MM	

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



Built-in WiFi/Bluetooth for Remote



Support Wall Mounted Installation



Aerosol Fire Extinguishing System





Wide Inverter Compatibility

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

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



Model	FLA48280	FLA48300		
Battery Type	LiFel	PO4		
Nominal Energy	14.3kWh	15kWh		
Nominal Capacity	280Ah	300Ah		
Nominal Voltage	51.	2V		
Operating Voltage	44.8-5	57.6V		
Recommend Charge/Discharge Current	120	DA .		
Max. Continuous Charge/Discharge Current[1]	150	DA		
Peak Charge/Discharge Current(15s)	200	DA .		
Scalability	Max. 15 pcs in Parallel(215kWh)	Max. 15 pcs in Parallel(225kWh)		
Depth of Discharge(DOD)	≥95	5%		
Display Type	LC	D		
Protection Degree	IP2	21		
Working Tomporature Dange	Charge: 0°C~55°C			
Working Temperature Range	Discharge: -20°C~55°C			
Storge Temperature Range	0°C~+35°C			
Humidity	5%~!	95%		
Altitude	≤ 20	00m		
Communication	RS485	5/CAN		
Cycle Life	≥ 6000 Cycles (25°C±2°C,0.	5C/0.5C,90%DOD,70%EOL)		
Installation	Wall-Mounted /	Floor-Mounted		
Protection	Built-in Smart BMS, Breaker, Fuse			
Warranty Period	7 Years			
Certification	UN38.3 UN38.3 CE-EMC IEC 6			
Product Weight	135	KG		
Package Weight	160KG			
Product Dimension	480X1100	0X300MM		
Package Dimension	1150X635X498MM			

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



Real-time status via LCD Display



Aerosol Fire Extinguishing System



Support 15 Pcs in Parallel



Built-in WiFi/Bluetooth for Remote Monitoring



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

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



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

^[1] 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



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

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

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



Model		FLS48100SG1							
Battery Type					LiFe	DO4			
Module Nominal					kWh				
Module Nominal					100				
Module Nominal					51.				
Number of Batte		1	2	3	4	5	6	7	8
System Nominal	•	5.12kWh	10.24kWh	15.36kWh			30.72kWh	35.84kWh	40.96kWh
System Nominal		5.12KWN	10.24KWN	15.36KWN	20.48kWh	25.6kWh	30.72KWN	35.84KWN	40.96KWN
System Operatir	0				51.				
		F0.4	1004	1504	44.8-		2004	2504	4004
	arge/Discharge Current	50A	100A	150A	200A	250A	300A	350A	400A
	Charge/Discharge Current[1]	60A	120A	180A	240A	300A	360A	400A	400A
	charge Current(15S)	100A	200A	300A	400A	500A	600A	700A	800A
Scalability	4				Max. 8 pcs				
Depth of Dischar	rge(DOD)				≥9				
Display Type				Control	Module: LCD/I	-	le: LED*4		
Protection Level	rotection Level			IP21					
Working Temper	rature Range	Charge: 0°C~55°C							
Storge Temperat	turo Dango	Discharge: -20°C~55°C 0°C~+35°C							
	5%~95%								
Humidity		5%~95% ≤ 2000M							
Altitude		€ 2000M RS485/CAN							
Communication		≥ 6000 Cycles							
Cycle Life[2]									
Installation					all-Mounted/				
Protection				Bu	ilt-in Smart BN		use		
Warranty Period					10 Y				
Certification		UN38.3、CE-EMC、IEC 62619、CB							
	Product Weight Approximate					KG			
Control Module	Package Weight Approximate				60	KG			
FLS48100SCG1	Product Dimension				600X450				
	Package Dimension	712X562X333 MM							
	Product Weight Approximate				46	KG			
Battery Module	Package Weight Approximate				50	KG			
FLS48100SMG1	Product Dimension				600X450	X180 MM			
Package Dimension		712X562X298 MM							

^[1] 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

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

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

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



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

^[1] 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

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

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

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



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

^[1] 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

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

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

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

LiFePO4 Battery Pack

Low-voltage LPBF Series



Model	LPBF48250	LPBF48300	LPBF48300-II	LPBF48350	
'					
Battery Type	LiFePO4				
Nominal Energy	12.5kWh	15kWh	15kWh	17.5kWh	
Nominal Voltage		5	1.2V		
Operating Voltage		48-	57.6V		
Recommend Charge/Discharge Current[1]		<	120A		
Recommend Charge/Discharge Power[1]		≪6	,000W		
Maximum Charge/Discharge Current(15s)		2	00A		
Maximum Charge/Discharge Power(15s)		10,	000W		
Depth of Discharge(DOD)		≽	95%		
Scalability	Max. 6 pcs in Parallel (90kWh)	Max. 6 pcs in Parallel (90kWh)	Max. 6 pcs in Parallel (90kWh)	Max. 6 pcs in Parallel (105kWh)	
Communication		RS48	B5/CAN		
Protection Degree		I	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	
Package Dimension	718x450x1112MM	718x450x1112MM	718x450x1112MM	718x450x1112MM	

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







Support 6 Pcs in Parallel



Longer Lasting LiFePO4 Battery



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



LPBF48300-II Wire Ports

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

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

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



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		

^[1] 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



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

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

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



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

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

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

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

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

^{*}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	AI100-5048 ESS		
Investor Parameters	Al100-5048		
Inverter Parameters	5000VA		
Rated Output Power	5000VA 5000W		
Naminal DC Input Valtage			
Nominal DC Input Voltage	48V		
Nominal Input Voltage	230Vac		
Nominal Input Frequency	50Hz/60Hz(Auto detection)		
Parallel Capability	Yes, up to 12 units		
PCS (In Progress)	CE-EMC、CE-LVD		
Utility Charge Mode Specifications	2204		
Nominal Input Voltage	230Vac		
Nominal Output Voltage	230Vac		
Input Voltage Range	90~280Vac		
Max. Charge Current	100A		
Solar Charging & Grid Charging	T0011		
Max. PV Open Circuit Voltage	500V		
Max. Input Power	6000W		
Max. Solar Charging Current	100A		
Max. Charging Current(PV+Grid)	100A		
Max. Input Current	25A		
General Specifications			
Protection Level Protection Level	IP20		
Net Weight (KG)	17.8KG		
Product Size(D*W*H)	710x350x180MM		
Package Dimension(D*W*H)	792x507x278MM		
battery Parameters	Al100-B5		
Capacity	5.12kWh		
Battery Type	LiFePO4		
Nominal Voltage	51.2V		
Operating Voltage	44.8-57.6V		
Recommend Charge/Discharge Current [1]	≤100A		
Recommend Charge/Discharge Power [1]	≤5,000W		
Maximum Charge/Discharge Current (15s)	150A		
Maximum Charge/Discharge Power (15s)	7,500W		
Depth of Discharge (DOD)	≥95%		
Scalability	Max. 15 pcs in Parallel(76.8kWh)		
Communication	RS485/CAN		
Protection Level	IP21		
Cycle Life [2]	≥6,000 Cycles		
Display	LED		
Installation	Wall-Mounted/Floor-Mounted		
Protection	Built-in smart BMS, Breaker, Fuse		
Warranty	5 Years		
Certification	UN38.3		
Net Weight	45KG		
Gross Weight	49.5KG		
Product Dimension	660X420X180MM		
Package Dimension	822X522X278MM		
	022/,022/,C10mm		

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



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

^{*}Conditions Apply, Refer to Felicitysolar Warranty Letter.

FSOLAR Smart Energy Management Platform



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



1. Real-time Data Insight

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



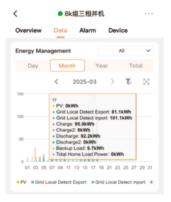


2. System and Device Status Monitoring

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

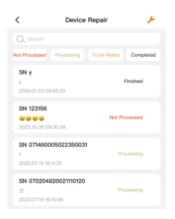
3. Historical Data Analysis

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



5. After-Sales Support

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

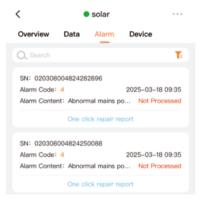


Plant Overview



4. Immediate Alerts for Abnormal Situations

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



6. OpenAPI

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

APP Download





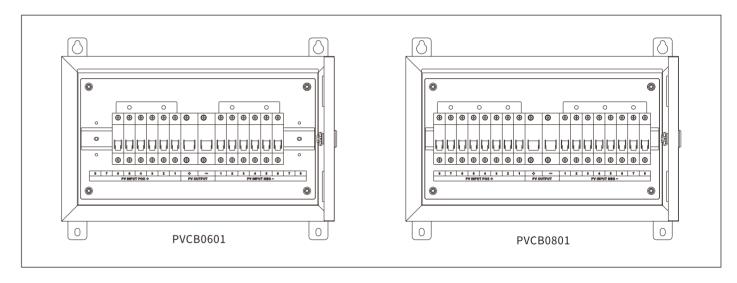






Model	PVCB0601	PVCB0801	
Max. Imum Input Voltage	500V	500V	
Max. Imum Number of Input Paths	6	8	
Max. Imum Allowable Input Current of Branch	15A	15A	
Max. Imum Output Current	100A	100A	
Lightning Protection Device	Surge Switch		
Shell Material	Metal Chassis		
Input Cable Diameter	4~8mm²		
Output Cable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

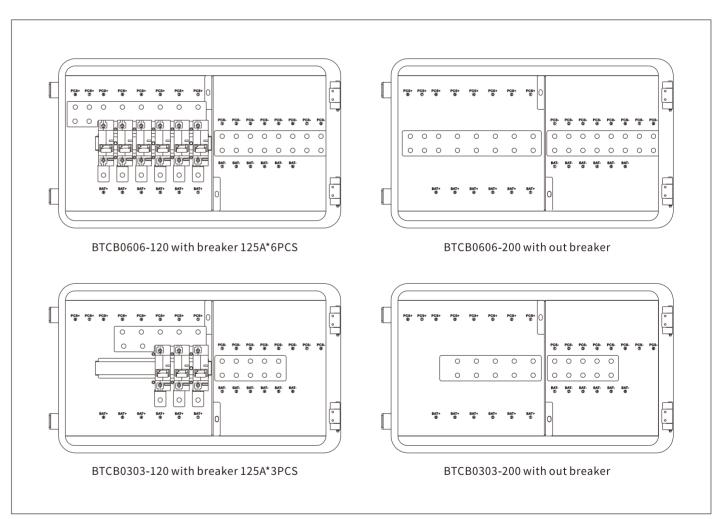
Internal Schematic Diagram of the Product





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













