



Inverter Mode Specifications	
<b>Model</b>	<b>IVEM6048-II</b>
<b>Rated Output Power</b>	6000VA
	6000W
<b>Nominal DC Input Voltage</b>	48V
<b>Output Voltage Waveform</b>	Pure sine wave
<b>Nominal Output Voltage</b>	230Vac±5%
<b>Nominal Output Frequency (Hz)</b>	50±0.3Hz/60Hz±0.3Hz (Adjustable)
<b>Parallel capability</b>	Yes, up to 12 units
<b>Peak Efficiency</b>	93%
<b>Over-Load Protection (SMPS load)</b>	Load >200%, 200ms / Load >150%, 5.5s Load >120%, 7.5s / Load >105% 10.5s
<b>Surge Rating</b>	2* rated power for 5s
<b>Capable of Starting Electric</b>	Yes
<b>Output Short Circuit Protection</b>	Yes
<b>Cold Start Voltage</b>	46V
<b>Low Battery Alarm</b> Load < 50% @Load ≥ 50%	45.0V 44.0V
<b>Low Battery Alarm Recovery</b> Load < 50% @Load ≥ 50%	47.0V 46.0V
<b>Low DC Input Shut-down</b> Load < 50% @Load ≥ 50%	43.0V 42.0V
<b>High DC Input Alarm &amp; Fault</b>	62V±0.4V
<b>High DC Input Recovery</b>	60V±0.4V
General Specifications	
<b>Operating Temperature</b>	-10C°~50C°
<b>Range Storage Temperature</b>	-15C°~60C°
<b>Net Weight (Kg)</b>	12.5kg
<b>Product Size (D*W*H)</b>	420 x 335 x 142mm
<b>Package Dimension (D*W*H)</b>	512 x 417 x 216mm

Model	FLA48100	FLA48200
Battery Type	LiFePO4	
Nominal Energy	5.12kWh	10kWh
Nominal Voltage	51.2V	51.2V
Operating Voltage	44.8-57.6V	44.8-57.6V
Recommend Charge/Discharge Current[1]	≤100A	≤120A
Recommend Charge/Discharge Power[1]	≤5,000W	≤6,000W
Maximum Charge/Discharge Current(15s)	150A	150A
Maximum Charge/Discharge Power(15s)	7,500W	7,500W
Scalability	Max. 15 pcs in Parallel(76.8kWh)	Max. 15 pcs in Parallel(150kWh)
Depth of Discharge(DOD)	≥95%	
Communication	RS485/CAN	
Protection Degree	IP21	
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	-20°C~+55 °C	
Display Type	LCD+LED	
Installation	Wall-Mounted / Floor-Mounted	
Protection	Built-in smart BMS, Breaker, Fuse	
Warranty Period	7 Years	
Certification	UN38.3、CE-EMC、 IEC 62619	UN38.3、CE-EMC、 IEC 62619、CB
Product Weight	48KG	68KG
Package Weight	55KG	88KG
Product Dimension	663X400X178MM	735X433X188MM
Package Dimension	782X522X262MM	849X550X362MM

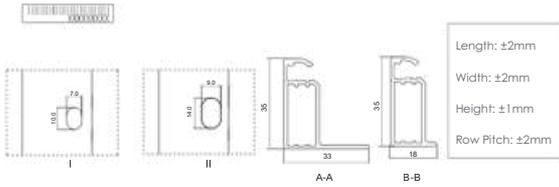
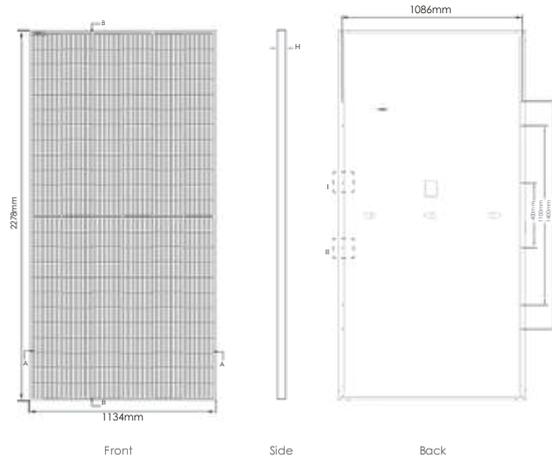
[1] Max. Continuous Charge/Discharge Current is Affected by Temperature and SOC.

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

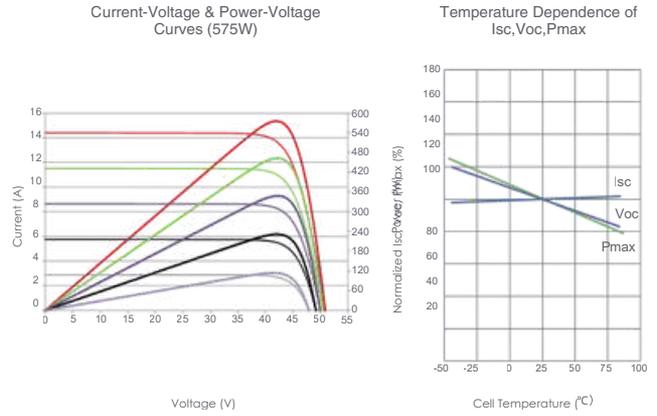
\*Refer to Felicitysolar's Warranty Policy for applicable conditions.



## Engineering Drawings



## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type No.	Ntype Mono-crystalline
of cells	144 (6×24)
Dimensions	2278×1134×35mm (89.69×44.65×1.38 inch)
Weight	28 kg (61.73 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## Packaging Configuration

(Two pallets = One stack)  
31 pcs/pallets, 62 pcs/stack, 620 pcs/ 40'HQ Container

## SPECIFICATIONS

Module Type	JKM565N-72HL4 JKM565N-72HL4-V		JKM570N-72HL4 JKM570N-72HL4-V		JKM575N-72HL4 JKM575N-72HL4-V		JKM580N-72HL4 JKM580N-72HL4-V		JKM585N-72HL4 JKM585N-72HL4-V	
	STC	NOCT								
Maximum Power (Pmax)	565Wp	425Wp	570Wp	429Wp	575Wp	432Wp	580Wp	436Wp	585Wp	440Wp
Maximum Power Voltage (Vmp)	41.92V	39.38V	42.07V	39.51V	42.22V	39.60V	42.37V	39.69V	42.52V	39.81V
Maximum Power Current (Imp)	13.48A	10.79A	13.55A	10.85A	13.62A	10.92A	13.69A	10.99A	13.76A	11.05A
Open-circuit Voltage (Voc)	50.60V	48.06V	50.74V	48.20V	50.88V	48.33V	51.02V	48.46V	51.16V	48.60V
Short-circuit Current (Isc)	14.23A	11.49A	14.31A	11.55A	14.39A	11.62A	14.47A	11.68A	14.55A	11.75A
Module Efficiency STC (%) Operating	21.87%		22.07%		22.26%		22.45%		22.65%	
Temperature (°C)	-40°C ~ +85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc Nominal	0.045%/°C									
operating cell temperature (NOCT)	45±2°C									