















SOLAR INVERTER

IVEM-LV 3024-5048 SERIES

-  Pure sine wave inverter.
-  Built-in MPPT solar charge controller.
-  Configurable input voltage range for home appliances and personal computers via LCD setting.
-  Configurable battery charging current based on applications via LCD setting.
-  Configurable AC/Solar Charger priority via LCD setting.
-  Compatible to mains voltage or generator power.
-  Auto restart while AC is recovering.
-  Parallel connection quantity up to 6 units for 5KVA model (Battery must be connected).
-  Intelligent fan control greatly reduces fan noise.
-  Lithium battery activation function.
-  Inverter running without battery.
-  Cold start function.

Specification








Model	IVEM3048-LV	IVEM5048-LV
Line Mode Specifications		
Rated Output Power(VA)	3000VA	5000VA
Rated Output Power(W)	3000W	5000W
Nominal DC Input Voltage	48V	48V
Input Voltage Waveform	Sinusoidal (utility or generator)	
Nominal Input Voltage	110Vac	
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		
Nominal Input Voltage	110Vac	
Input Voltage Range	65-140Vac	
Max. Charge Current	60A	100A
Over Charge Protection	Yes	
Solar Charging & Grid Charging		
Max. PV Open Circuit Voltage	500V	
PV Voltage Working Range	90V-500V	
Max. Input Power	4000W	6000W
Max. Solar Charging Current	60A	100A
Max. Charging Current(PV+Grid)	60A	100A
Max. Input Current	15A	20A
Min. Startup Voltage	100V	
Inverter Mode Specifications		
Rated Output Power(VA)	3000VA	5000VA
Rated Output Power(W)	3000W	5000W
Nominal Output Voltage	110Vac±5%	
Nominal Output Frequency (Hz)	50+0.3Hz/60Hz±0.3Hz(Adjustable)	
Parallel capability	No	Yes, up to 6 units
Peak Efficiency	93%	
Over-Load Protection (SMPS load)	5.5s@≥150%load;10.5s@105%~150%load	
General Specifications		
Net Weight(KG)	11.9KG	13.1KG
Gross Weight(KG)	14.2KG	15KG
Product Dimension(D*W*H)	440x328x130MM	460x343x137MM
Package Dimension(D*W*H)	542x400x224MM	562x443x231MM

51.2V

LiFePO4 Battery Pack

Low-voltage

Features

-  Built-in fire protection system.
-  Scalable expansion up to 15 pcs in parallel.
-  Built-in WiFi 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 7-year long warranty.



FLA48100



FLA48200

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.

Product Display



Built-in WiFi / Bluetooth for Remote Monitoring



Aerosol Fire Extinguishing System



Support Wall Mounted Installation



Wide Inverter Compatibility

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