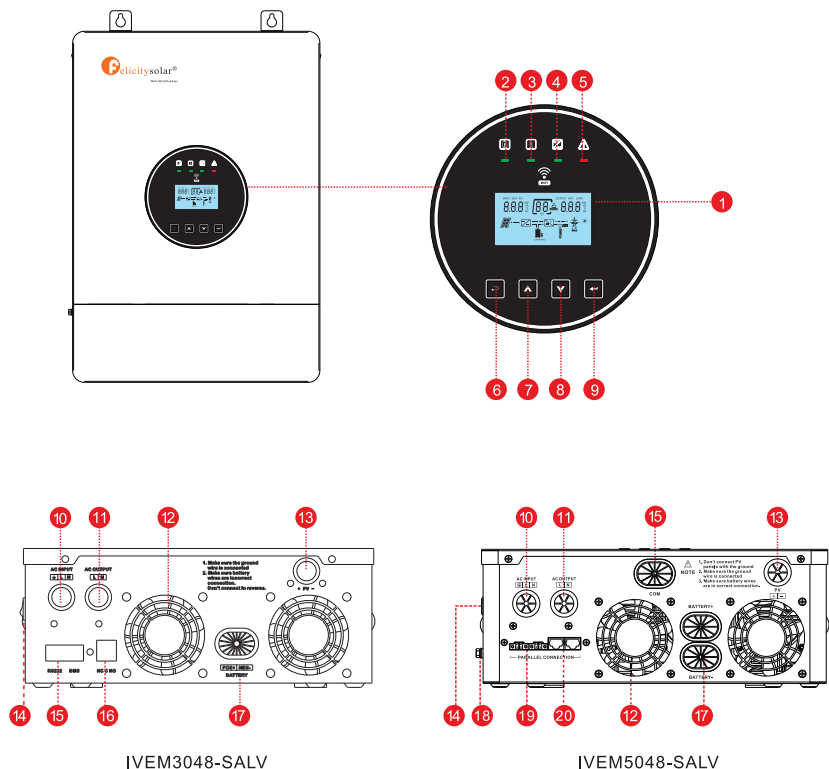


PRODUCT OVERVIEW



- | | | |
|-------------------------------|------------------------------|-----------------------------------|
| 1. LCD display | 8. DOWN button | 15. Communication connection port |
| 2. Charging indicator | 9. ENTER button | 16. Dry contact |
| 3. Utility bypass indicator | 10. AC input port | 17. Battery connection port |
| 4. Inverter indicator | 11. AC output port | 18. PE |
| 5. Fault or warning indicator | 12. Fan | 19. Current sharing port |
| 6. ESC button | 13. PV input connection port | 20. Parallel communication port |
| 7. UP button | 14. Switch | |

* 15 The BMS communication port only supports Felicitysolar batteries

SPECIFICATIONS

Line Mode Specifications		
Model	IVEM3048-SALV	IVEM5048-SALV
Rated Output Power	3000VA	5000VA
	3000W	5000W
Nominal DC Input Voltage	48V	48V
Input Voltage Waveform	Sinusoidal (utility or generator)	
Nominal Input Voltage	127Vac	
Low Line Voltage Disconnect	65Vac±3V (For Home Appliances)90Vac±3V (For Computers)	
Low Loss Voltage Re-connect	70Vac±3V (For Home Appliances)95Vac±3V (For Computers)	
High Line Voltage Disconnect	140Vac±3V	
High Line Voltage Re-connect	135Vac±3V	
Max AC Input Voltage	140Vac±3V	
Nominal Input Frequency	60Hz	
Low Line Frequency Disconnect	47±1HZ	
Low Line Frequency Re-connect	49±1HZ	
High Line Frequency Disconnect	65±1Hz	
High Line Frequency Re-connect	63±1Hz	
Output Voltage Waveform	As same as input waveform	
Output Short Circuit Protection	Line mode: Circuit Breaker Battery mode: Electronic Circuits	
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)	
Transfer Time (Single unit)	10ms typical (UPS); 20ms typical (Appliances)	
Transfer Time (Parallel)	50ms typical	
Output power derating: When AC input voltage drops to 80V, the output power will be derated.		
Pass Through Without Battery	Yes	
Max. Bypass Overload Current	40A	63A
Max. Inverter/Rectifier Current	30A/3000W	50A/5000W

Utility Charge Mode Specifications		
Model	IVEM3048-SALV	IVEM5048-SALV
Nominal Input Voltage	127Vac	
Input Voltage Range	65-140Vac	
Nominal Output Voltage	Dependent on battery type	
Max. Charge Current	60A	100A
Charge Current Regulation	10-100A (Adjustable unit is 1A)	
Over Charge Protection	Yes	
Solar Charging & Grid Charging		
Max. PV Open Circuit Voltage	500V	
PV voltage range	120V-450V	
Max.PV Input Power	4000W	6000W
Max. PV Charging Current	60A	100A
Max. Charging Current(PV+Grid)	60A	100A
Max. PV Input Current	15A	20A
Min. Startup Voltage	100V	

Charge Algorithm				
Algorithm	Three stage: Boost CC (Constant current stage) -> Boost CV (Constant voltage stage) -> Float (Constant voltage stage)			
Charging Curve	FOR 24 VOLTS X 2 ADJUSTABLE TIME DEPENDING ON BATTERY BANK SIZE CHARGING CURRENT TIME STEP 1 = CONSTANT CURRENT CHARGE STEP 2 = CONSTANT VOLTAGE AT 14.5V STEP 3 = CONSTANT VOLTAGE AT 14.5V STEP 4 = LOW VOLTAGE BULK TO STEP 1 THE NEW BATTERY CHARGERS AND MONITORS COVER THE BATTERY CHARGE WIDE CURRENTLY AVAILABLE STEP 1 = CONSTANT CURRENT CHARGE STEP 2 = CONSTANT VOLTAGE AT 14.5V STEP 3 = CONSTANT VOLTAGE AT 14.5V STEP 4 = LOW VOLTAGE BULK TO STEP 1			
Battery Type Setting	Battery Type	Boost CC/CV	Float	
	AGM	56.4V	54V	
	Flooded	58.4V	54V	
	Self - defined	Adjustable, up to 60V		
	Lithium			
Inverter Mode Specifications				
Model	IVEM3048-SALV		IVEM5048-SALV	
Rated Output Power	3000VA		5000VA	
	3000W		5000W	

Nominal DC Input Voltage	48V	48V
Output Voltage Waveform	Pure sine wave	
Nominal Output Voltage	127Vac±5%	
Nominal Output Frequency (Hz)	60Hz±0.3Hz	
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	
Surge Rating	2* rated power for 5s	
Capable of Starting Electric	Yes	
Output Short Circuit Protection	Yes	
Cold Start Voltage	46V	
Low Battery Alarm	Load < 50% 45.0V @Load ≥ 50% 44.0V	
Low Battery Alarm Recovery	Load < 50% 47.0V @Load ≥ 50% 46.0V	
Low DC Input Shut-down	Load < 50% 43.0V @Load ≥ 50% 42.0V	
High DC Input Alarm & Fault	62V±0.4V	
High DC Input Recovery	56.4 Float Voltage	
Power Limitation	When battery voltage is lower than 45Vdc, output power will be derated. If connected load is higher than this derated power, the AC output voltage will decrease until the output power reduces to this derated power. The lowest AC output voltage varies based on the inverter's mode: 90V in UPS mode and 65V in APL mode.	
General Specifications		
Operating Temperature	-10°C ~ +50°C	
Range Storage Temperature	-15°C ~ +60°C	
Ingress Protection	IP21	
Net Weight(KG)	11.9KG	14.9KG
Gross Weight(KG)	14.2KG	17.3KG
Product Size(D*W*H)	440x328x130MM	487.4x343x137MM
Package Dimension(D*W*H)	542x430x224MM	589x443x231MM