

Firefly OS

RESS(INV+BAT Integrated)

Features

- Highly integrated optical storage integrated inverter, high voltage battery system, BMS, EMS. There is no external cable connection between the structure, which effectively protects the safety of users and simplifies the on-site installation.
- Perfect combination with the wall and higher space utilization. The shape is more beautiful and fits the style of residential appliances.
- Built-in active perfluorohexanone fire extinguisher to ensure the ultimate safety of home applications.
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- Built-in leading management system, integrated coordination and linkage management of battery, grid, photovoltaic and load. The data is more abundant and intuitive, and the household electricity is fully controlled.
- The backup time can be increased by separate battery system, or the power and electricity can be increased simultaneously by system parallel. Support up to 6 parallel expansion, up to 48kW/90kWh, plug and play design and automatic allocation of parallel machine ID.
- Covering the product models that can be used in Europe, Australia, Africa, North America and so on. Compatible with single-phase, three-phase and split-phase grid system. At the same time, the high-voltage battery system can be used separately, match the mainstream inverter brands in the market, so as to flexibly respond to the market and terminal methods.



Product Features 《

Cell System Model	BM-OS-10	BM-OS-15
Cell Type	Ferric Lithium Phosphate	
Rated Capacity	33kWh	15kWh
Available Capacity ¹⁾	9.4kWh	34.25kWh
Depth of Discharge	Maximum 95%, adjustable	
Rated Voltage	204.8Vdc	307.2Vdc
Operating Voltage Range	179.2 ~ 230.4 Vdc	180.8 ~ 345.6 Vdc
Dimension (W*D*H)	742 x 176 x 1205mm	
Weight	Approximately 120kg	Approximately 180kg
Maximum Continuous Charge/Discharge Power	10kW	15kW
Maximum Continuous Charge/Discharge Current	50A/1C	
Operating Temperature Range ¹⁾	-25~50°C discharge, 0~5°C charge	
Relative Humidity	5% ~ 95%	
Protection Class	IP65	
Installation Method	Floor to Wall/Wall Mount	
Communication	CAN / RS485 / WiFi / Ethernet	
Cell Cycle Times	<6000 times @ 0.5C / 25°C / 90% DOD	
Certification Standards	IEC62620, CE, UN38.3, UL1973, UL9540A, FCC	
Parallel Scaling	3 units in parallel up to 75 kWh	

Note: 1) Test conditions: 25°C±2°C, 0.5°C, etc.
*2. The cell temperature is too high and too low, and the cell performance is degraded.

Inverter Model	Hybrid-OS-1157-AIR
Photovoltaic Input	
Maximum Input Power	11.6kW
Maximum System Voltage	600Vdc
MPP Voltage Range	80~500Vdc
Number of MPPs / Number of MPP Active Strings Per Channel	3/1
Maximum Input Current	15.5A/15.5A/15.5A
Maximum Short-circuit Current	30A / 30A / 30A
AC Output (Split-Phase)	
Rated Output Power	7.6kW
Maximum Output Current	31.1A
Rated Output Current	26.1A
Operating Phase	3P
Rated Voltage	180Vdc
Operating Voltage Range	211.2 ~ 249Vdc
Rated Frequency	60Hz
Operating Frequency Range	55 ~ 60Hz
Power Factor	>0.99
THD	<3%
AC Output (3P grid-tie)	
Rated Output Power	7.6kW
Maximum Peak Output Power	9.3kW
Switching Time between Parallel and Off-grid	<13ms
Rated Output Voltage Range (L/N/PE)	230V/240V, 230V/240V, 112~120Vdc
Rated Frequency	50/60Hz
Rated Output Current	31.1A
Total Voltage Harmonic Distortion Rate (at Linear Load)	<3%
Efficiency	
Maximum Efficiency	97.6%
European Efficiency (CEC Efficiency North America)	96%
Basic Parameters	
Weight	Approximately 28kg
Dimension (W*D*H)	742 x 200 x 1075mm
Operating Temperature	-25~60°C
IP Rating	IP65
Heat Dissipation Method	Intelligent Air-cooled
External Communication	WiFi, Bluetooth, RS485, and CAN
Certification	
Safety Regulation	IEC 62620-1, IEC 62621, IEC 62626-1, IEC 62626-2 (under certification)
Grid Connection	AS/NZS 4777.1.2:2015, EN50438-1:2015, EN50438-2:2015, EN50438-3:2015, VDE 4105:2015 (under certification)

Inverter Model	Hybrid-OS-4000-S	Hybrid-OS-6000-S	Hybrid-OS-8100	Hybrid-OS-8107	Hybrid-OS-8107
Photovoltaic Input					
Maximum Input Power	20kW	15kW	20kW	20kW	20kW
Maximum System Voltage	600Vdc	600Vdc	600Vdc	600Vdc	600Vdc
MPP Voltage Range	80~500Vdc	80~500Vdc	80~500Vdc	80~500Vdc	80~500Vdc
Number of MPPs / Number of MPP Active Strings Per Channel	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2
Maximum Input Current	16.5A	16.5A	16.5A	16.5A	16.5A
Maximum Short-circuit Current	33.5A	33.5A	33.5A	33.5A	33.5A
AC Output (Split-Phase)					
Rated Output Power	10kW	10kW	15kW	15kW	20kW
Maximum Output Current	21.7A	21.7A	26.7A	26.7A	34A
Rated Output Current	21.7A	21.7A	26.7A	26.7A	34A
Operating Phase	3P	3P	3P	3P	3P
Rated Voltage	208 / 240Vdc	208 / 240Vdc	208 / 240Vdc	208 / 240Vdc	208 / 240Vdc
Operating Voltage Range	180~300Vdc	180~300Vdc	180~300Vdc	180~300Vdc	180~300Vdc
Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Operating Frequency Range	45 ~ 65 / 55 ~ 65Hz	45 ~ 65 / 55 ~ 65Hz	45 ~ 65 / 55 ~ 65Hz	45 ~ 65 / 55 ~ 65Hz	45 ~ 65 / 55 ~ 65Hz
Power Factor	>0.99	>0.99	>0.99	>0.99	>0.99
THD	<3%	<3%	<3%	<3%	<3%
AC Output (3P grid-tie)					
Rated Output Power	10kW	10kW	15kW	15kW	20kW
Maximum Peak Output Power	10kW	10kW	15kW	15kW	20kW
Switching Time between Parallel and Off-grid	<13ms	<13ms	<13ms	<13ms	<13ms
Rated Output Voltage Range (L/N/PE)	230V/240V, 240V/240V, 112~120Vdc	230V/240V, 240V/240V, 112~120Vdc	230V/240V, 240V/240V, 112~120Vdc	230V/240V, 240V/240V, 112~120Vdc	230V/240V, 240V/240V, 112~120Vdc
Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated Output Current	21.7A	21.7A	26.7A	26.7A	34A
Total Voltage Harmonic Distortion Rate (at Linear Load)	<3%	<3%	<3%	<3%	<3%
Efficiency					
Maximum Efficiency	96.6%	96.6%	96.6%	96.6%	96.6%
European Efficiency/CEC Efficiency (North America)	96.2%	96.2%	96.2%	96.2%	96.2%
Basic Parameters					
Weight	Approximately 35kg				
Dimension (W*D*H)	742 x 200 x 1075mm				
Operating Temperature	-25~60°C				
IP Rating	IP65				
Heat Dissipation Method	Intelligent Air-cooled				
External Communication	WiFi, Bluetooth, RS485, and CAN				
Certification					
Safety Regulation	IEC 62620-1, IEC 62621, IEC 62626-1, IEC 62626-2 (under certification)				
Grid Connection	AS/NZS 4777.1.2:2015, EN50438-1:2015, EN50438-2:2015, EN50438-3:2015, VDE 4105:2015 (under certification)				

