

FAIRLAND®

# Micro Energy Storage System



Unique Pad Design



2-Hour Full Charge



100% Free Power



## Plug & Play Setup

DIY Installation with  
Universal Compatibility

## Dual-Source Input

Solar + Grid,  
2400W Combined

## Expandable Capacity

5.12 kWh (standalone)  
Up to 20 kWh (4 units in parallel)

## Extreme Climate Ready

-20°C Operation with  
Built-in Heating

## Fairland Micro Energy Storage System

Off-grid Output	
Rated Off-grid Output Power	2.4 kW
Maximum Off-grid Output Power	3.6 kW(10 S)
Rated Output Current	10.44 A
Rated Output Voltage	230 V
Rated Output Frequency	50 HZ
Efficiency	
Maximum Inverter Efficiency from Battery to Mains Power	>93.5%
Protection	
Protection Level	I
General Parameters	
Isolation Type	Isolation
Operating Temperature Range	-20 °C ± 60 °C
Relative Humidity	0-95%
Protection Level	IP65
Cooling Method	Natural Cooling
Maximum Altitude	2000m
Grid-Connection Standard	EN 50549-1/10、C10/11、VDE 4105、CEI 0-21
Regulations	IEC62109、IEC62477
Electromagnetic Compatibility	IEC/EN 61000
Dimensions (L × W × H)	446*180*568 mm
Weight	36±2 kg
Grid-Connected Connection	Single-phase plug
Display	LED
Communication Method	WiFi/Bluetooth/RS-485
Battery Information	
Rated Voltage	51.2 V
Battery Capacity	5120 Wh
Cycle Count	>6000(25 °C)
Cell Type	LiFePO <sub>4</sub>
Depth of Discharge	90%
Capacity	100Ah
Photovoltaic Input	
Rated Voltage Range (Vdc)	10-100
Maximum Input Voltage (Vdc)	100
Maximum Input Current (A)	16*2
Maximum Input Power (W)	1000*2
Mains Input	
Rated Power	2.4 kW
Grid Connection Type	L/N/PE
Rated Grid Voltage	230 V
Grid Voltage Range	184 V-253 V
Rated Grid Frequency	50 Hz
Rated Grid Current	10.44 A
Power Factor	>0.9
Current Harmonic	<3%
Grid Connection	
Rated Power	Default 0.8 kW / Maximum 2.4 kW
Grid Connection Type	L/N/PE
Rated Grid Voltage	230 V
Grid Voltage Range	184 V-253 V
Rated Grid Frequency	50 Hz
Rated Grid Current	Default 3.48 A / Maximum 10.44 A

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