

Residential ESS

FAIRY-SL5



Integrated design

- Home style, fashionable appearance
- Plug and play interface, quick installation
- Stackable battery packs, flexible capacity extension



High performance battery

- LiFePO4 prismatic battery cell, safe and reliable
- 24 hours backup to ensure power supply without outage
- 5.12kWh per pack, scalable to 6 packs maximum 30.7kWh



Energy savings & Eco-friendly

- Clean energy generation for self-use and reduce carbon emissions
- Charge in daytime and discharge at night peak hours, reduce electricity bill cost
- APP monitoring, manage and control household energy in real-time



ESS Model No.		FAIRY-SL5			
Rated output power	5000VA				
Max. PV input power	7000W				
Energy storage capacity	10.2kWh~30.7kWh				
Battery type	LiFePO4				
Warranty	5 years				
Inverter Specifications					
PV Input			AC Output		
Hybrid model No.	FAIRY-HB1-5L		Rated output current	21.7A	
Max. input voltage	550V		Rated output voltage	230VAC	
Rated input voltage/MPPT range	360V/125~500V		AC voltage range	230VAC ± 10%	
MPPT tracker/strings	2/1		Grid frequency	50/60Hz	
Max. input current	24A (12/12)		THDi	< 3 % (at rated power)	
Short-circuit max. input current	28A (14/14)		Power Factor	> 0.99 (at rated power)	
Matched Battery Requirements			General Specifications		
Battery type	LiFePO4 or Lead-acid		Max. efficiency	97.5%	
Voltage range	40~58V		Ingress protection rating	IP65	
Max. charge/discharge current	50A		Cooling method	Natural cooling	
Emergency Power Supply (EPS)			Noise level	< 35dB	
Rated output power	3000W		Display	LCD	
Rated output voltage	220/230V		Communication	RS485, CAN, Ethernet, Wi-Fi (Optional)	
Rated output frequency	50/60Hz		Dimensions (L×W×H)	678×575×309 mm	
Rated output current	13A		Weight	30kg	
Battery Specifications					
Stackable capacity	10.2kWh	15.3kWh	20.4kWh	25.6kWh	30.7kWh
Battery quantity	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs
Dimensions (L×W×H mm)	678×310×582	678×310×833	678×310×1084	678×310×1335	678×310×1586
Stackable weight	108kg	157kg	206kg	255kg	304kg
Battery model No.	iBAT-R-5.1L		Weight	49kg	
Nominal capacity	5.12kWh		Dimensions (L×W×H)	678×310×291mm	
Depth of discharge (DOD)	90% (settable)		Communication	CAN, 485	
Rated voltage	51.2V		Working temperature	-10°C~55°C	
Voltage range	43.2~57.6V		Protection rating	IP20	
Max. charge current	50A		Cycle life	≥6000*	
Max. discharge current	70A		Standard conformity	CE, UN38.3, MSDS	

Cycles@25°C,0-25C discharge and charge current, 80%DOD

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