Wall-mounted Residential ESS

COMPATIBILITY
Suitable for most mainstream inverters e.g. Afore hybrid inverters series SL-1+ / SL+ / SL-0+ / SLP+ SL-1 / SL / SL-0 / SLP

Wall-mounted or floor-standing

Safe LFP cells and smart BMS

Scalable up to 30kWh

Model	AF5000W-LP
Parameter	
Nominal Energy	5.22kWh
Usable Energy	4.96kWh
Nominal power	3.07kW
Maximum charging / discharging power	3.45kW
Maximum current charging / discharging	60A
Nominal current charging / discharging	60A
Battery type	Lithium - iron - phosphate (LiFePO4 / LFP)
Number of charging cycles and EOL	6000 times (25°C/ 0.5C , EOL70%)
Voltage range	44.8~57.6Vdc
Nominal Voltage	51.2Vd.c.
Rated Capacity	102Ah
Max.Charge Voltage	57.6Vd.c.
Weight	47kg
Dimension(mm)(H*L*W)	680*480*180mm
Depth of discharge (DOD) (%)	95
Efficiency (%)	95
Operating Condition	Indoor or outdoor
Operating Temperature: Charging	0~50°C
Operating Temperature: Discharging	-15~50°C
Operating Temperature: Charging with battery heating function	-20~50°C
Operating Temperature: Discharging with battery heating function	-20~50 °C
Storage Temperature Range	1 month 0~35°C / ≤1 month -20~45°C
Humidity	15% ~ 85%RH (No Condensation)
Over Voltage Category	II
Cooling Type	Natural cooling
Case Material	Metal
Installation	Wall-mounted or floor-standing
IP Rating	IP 66
Protective Class	I
Max. number of batteries connected in parallel	6
Communication	CAN/ RS485
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature
Certificates / standards	CE,IEC62619,IEC61000-6-1, IEC61000-6-3, IEC62040, IEC63056,UN38.3,MSDS, VDE-AR-E 2510-50, IEC60730
Emergency backup power function - support in the Black start system	Yes
Product warranty	10 years - with the possibility of extension
Heating function	Optional
Control and monitoring of the energy storage system state of charge, voltage, and load	Yes
Modular construtuion enabling the expansion of the energy storage	Yes
Remote software update and online problem diagnosis	Yes - via inverter
Cooperation with energy management system (EMS)	Yes

*Testing conditions based on temperature 25℃ at the beginning of life. Total Energy/Usable Energy are measured with a standard test method: 0.2C Charge and Discharge. As per the characteristics of lithium batteries, such parameters as the charge/ discharge current and efficiency listed above are subject to change.