

5kW Home Energy Storage Solutions (Stacked)

Battery capacity 10kWh, switch to off-grid mode without interruption, stable operation.



Home Appliance Style



Modular Design



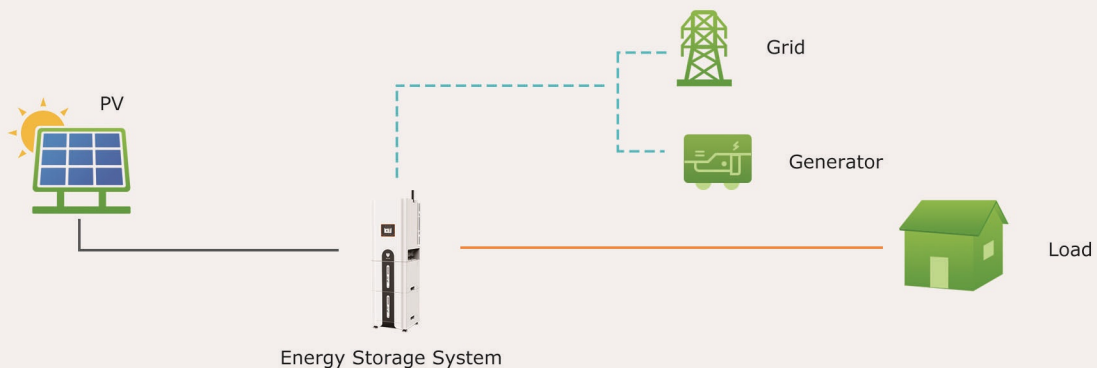
Stacked Installation



Product Model

◆ KYS5kW-10kWh-S

- **Modular design**
Modular design, stacked installation, simple appearance design, integration of modern home;
- **Smart switch**
Off-grid operation, supporting emergency power supply, and seamless switching;
- **Wide voltage input range**
Ultra-wide PV voltage range 120V-500V, battery Ultra-widevoltage range 85V-450V;
- **Safe and reliable**
Smart air cooling, low temperature rise, long life time, multiple protection functions;
- **Smart and simple**
Supporting GPRS / WIFI / RS485 / USB, LCD design, supporting remote monitoring;
- **High Power efficiency**
Less output power reduction under high temperature, with efficiency improved, max PV input power up to 1.4 X rated power.



Model	KYS5kW-10kWh-S
Efficiency	
MPPT Efficiency	99.90%
Max. Efficiency	>97.80%
Battery Efficiency	>98.10%
Battery Pack	
Model	KY-51V105AH-S
Serial Number*	2
Cell Type	Li-ion (LFP)
Battery Capacity	105Ah
Storage Capacity	10kWh
Available Capacity	9kWh
Cycle Life	7000
PV Input Data	
Max. Input Power	7000W
Max. Input Voltage	550V
MPPT Operating Voltage Range	120~500V
Number of MPPT Trackers	2
Number of Strings Per MPPT	1/1
Max. Input Current	15A/15A
Max. Short Circuit Current	18A/18A
Battery Port	
Operating Voltage Range	85~450V
Max. Charge/Discharge Current	25A/25A
Communication With BMS	CAN
AC Output Data(On-grid)	
Nominal Output Power	5000W
Max. Apparent Power	5000VA
Nominal Output Voltage	230V,1φ(L/N/PE)
Nominal Output Frequency	50Hz/60Hz
Max. Output Current	21.7A
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)
Total Harmonic Distortion	<3%
AC Output Data(Back-up)	
Nominal Output Power (ONLY BAT)	2560W
Max. Apparent Power	2560VA
Nominal Output Voltage	230V,1φ(L/N/PE)(N not connect to PE inside)
Nominal Output Frequency	50Hz/60Hz
Max. Output Current	21.7A
General Data	
Operating Temperature Range	-20℃~+60℃(>45℃ derating)
Altitude	<4000m
Noise Emission	<40dB
Topology	Transformerless
Cooling	Natural
Ingress Protection Rating	IP54
Relative Humidity	0~90%, no condensation
Display	LCD
Communication	RS485 (WiFi/GPRS Optional)
Communication with Meter	RS485
Dimension (W*D*H)	390*380*1315mm
Certification	
Safety Standards	IEC62109-1/-2
EMC Standards	EN61000-6-1/-2/-3,IEC61000
On-grid Standard	AS4777.2,NRS097-2-1:2017

*Battery pack stacking quantity selection range