

3-8kW Home Energy Storage Solutions (Stacked)

Battery capacity 4-16kWh, switch to off-grid mode without interruption, stable operation.



Home Appliance Style



Modular Design



Stacked Installation



Product Model

- ◆ KYS3kW-(4~16)kWh-S
- ◆ KYS4.2kW-(8~16)kWh-S
- ◆ KYS5kW-(8~16)kWh-S
- ◆ KYS6kW-(8~16)kWh-S
- ◆ KYS7kW-(12~16)kWh-S
- ◆ KYS8kW-(12~16)kWh-S

• Good battery scalability

The number of stacking strings is 1~4, which can be flexibly adjusted

• Safe and reliable

IP65 protection grade, high power quality, does not interfere with electrical equipment, ultra-low radiation

• Easy installation

Stack-type installation, no external wiring

• Intelligent switching

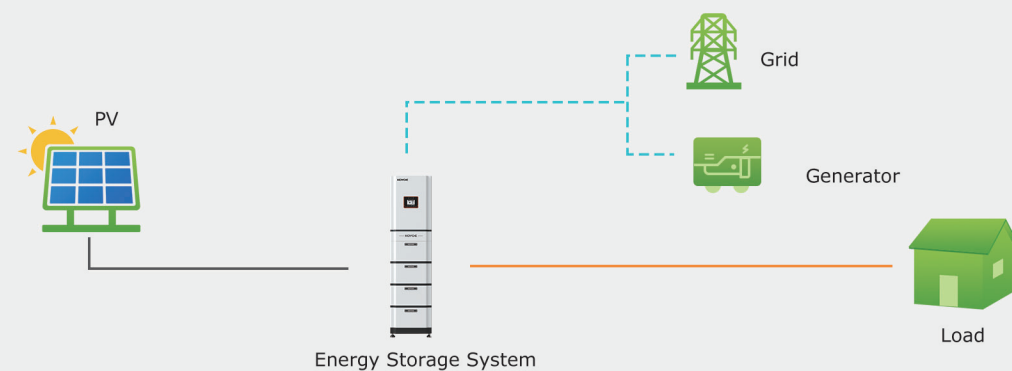
Support emergency power supply, and seamless off-grid switching;

• Efficient power generation

Maximum efficiency 97.8%, intelligent MPPT algorithm, tracking efficiency up to 99.99%.

• Intelligent and friendly

Ultra-quiet design, flexible communication mode:



Model	KYS3kW-(4~16)kWh-S	KYS4.2kW-(8~16)kWh-S	KYS5kW-(8~16)kWh-S	KYS6kW-(8~16)kWh-S	KYS7kW-(12~16)kWh-S	KYS8kW-(12~16)kWh-S
PV Input						
Max. Input Power	4500W	6300W	7500W	9000W	10500W	12000W
Max. Input Voltage	600V	600V	600V	600V	600V	600V
MPPT Operating Voltage Range	80-500V					
Start-up Voltage	60V					
Nominal Input Voltage	360V					
Max. Input Current	16A					
Max. Short Circuit Current	25A					
Number of MPPT Trackers	2					
Number of Strings Per MPPT	1/1					
Battery Pack						
Model	KY-102V40AH					
Operating Voltage Range	93-454V					
Serial Number*	1-4	2-4	2-4	2-4	3-4	3-4
Battery Capacity	4096Wh					
Storage Capacity	4-16kWh	8-16kWh	8-16kWh	8-16kWh	12-16kWh	12-16kWh
Max. Charge/Discharge Current	30A					
Max. Charge/Discharge Power	3000W/3000W	4200W/4200W	5000W/5000W	6000W/6000W	7000W/7000W	8000W/8000W
AC Output Data(On-grid)						
Nominal Output Power	3000W	4200W	5000W	6000W	7000W	8000W
Max. Apparent Power	3000VA	4200VA	5000VA	6000VA	7000VA	8000VA
Nominal Output Voltage	230V					
Nominal Output Frequency	50Hz/60Hz					
Max. Output Current	13A	18.3A	21.7A	26A	30.4A	34.8A
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Total Harmonic Distortion	<3%					
AC Output Data(Back-up)						
Nominal Output Power	3000W	4200W	5000W	6000W	7000W	8000W
Peak Output Power	3000W	4200W	5000W	6000W	7000W	8000W
Nominal Output Voltage	230V	230V	230V	230V	230V	230V
Max. Output Current	13A	18.3A	21.7A	26A	30.4A	34.8A
Nominal Output Frequency	50Hz/60Hz					
Efficiency						
Max. Efficiency	>97.40%					
European Efficiency	97.50%					
Protection						
Insulation Protection	Integrated					
Residual Current Monitoring	Integrated					
PV Reverse Polarity Protection	Integrated					
Anti-islanding Protection	Integrated					
Overcurrent Protection	Integrated					
Dc component Protection	Integrated					
DC Surge Protection	Type II					
AC Surge Protection	Type III					
General Data						
Operating Temperature Range	-20℃~+60℃(>45℃ derating)					
Altitude	3000m					
Topology	Transformerless Isolation					
Cooling	Natural Convection					
Ingress Protection Rating	IP65					
Relative Humidity	0-90%					
Display	LCD,WIFI+APP					
Communication	WIFI/RS485/GPRS					
Communication with Meter	CT/METER					
Dimension (W*D*H)	425*340*(1024/1266/1508/1750)mm					
Weight	60-150kg					

*Battery pack stacking quantity selection range

*The model name is determined by the number of battery packs