Residential Stackable Energy Storage System

KOYOE

Applicable to household distributed energy storage scenarios

3-8kW Distributed Photovoltaic energy storage hybrid stacking system

Product Models

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



Intelligent switching

Operate in off-grid mode, support emergency power supply and seamless off-grid switching

Simple atmosphere

Modularized design, stacked installation
Simple appearance design, integration with modern home

Efficient power generation

High temperature load reduction, improved power generation efficiency DC over-distribution capacity up to **1.7** times

Wide Voltage Range

Ultra-wide PV voltage range **80V-500V**
Battery Ultra-widevoltage range **85V-450V**

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*Specifications are subject to the actual nameplate of the product

Model	KYS3kW-(8~16)kWh-S	KYS4.2kW-(8~16)kWh-S	KYS5kW-(12~16)kWh-S	KYS6kW-(12~16)kWh-S	KYS7kW-16kWh-S	KYS8kW-16kWh-S
PV Input Data						
Max. Input Power[W]	5100	7140	8500	10200	11900	13600
Max. Input Voltage[V]	590					
Operating Voltage Range[V]	80~500					
Max. Input Current[A]	16/16					
Max. Short Circuit Current[A]	20/20					
Number of MPPT Trackers	2					
Number of Strings per MPPT	1/1					
MPPT Efficiency [%]	99.99					
AC Data(On-grid Interface)						
Nominal Output Power[W]	3000	4200	5000	6000	7000	8000
Max. Apparent Output Power [VA]	3300	4600	5500	6600	7700	8800
Max Input Power[W]	3300	4600	5500	6600	7700	8800
Nominal Output Voltage[Vac]	230，L/N/PE					
Nominal Output Frequency[Hz]	50/60					
Max. Output Current[A]	13	18.3	21.7	26	30.4	34.8
Power Factor Range	~1(0.8 lead to 0.8 lag can be set)					
Total Harmonic Distortion[%]	< 3					
AC Data(Off-grid Interface)						
Nominal Output Power[W]	3000	4200	5000	6000	7000	8000
Max. Apparent Output Power [VA]	3300	4600	5500	6600	7700	8800
Nominal Output Voltage[Vac]	230,L/N/PE					
Nominal Output Frequency[Hz]	50/60					
Peak Output Apparent Power[VA](60s)	3600	5040	6000	7200	8400	8400
Peak Output Apparent Power[VA](10s)	5500	5500	7500	9000	9000	9000
On/Off grid switching time [ms]	<10					
AC Data(Diesel Gen.)						
Nominal Voltage[Vac]	230,L/N/PE					
Nominal Frequency[Hz]	50/60					
Nominal Input Apparent Power[VA]	3000	4200	5000	6000	7000	8000
Battery Data						
Battery type	LFP					
Singel Working voltage range[V]	89.6~116.8					
Battery model	KY-102V40AH					
Max. Charge/Discharge Power[W]	3000	4200	5000	6000	7000	8000
Number of Batteries	2~4	2~4	3~4	3~4	4	4
Single Battery Capacity[kWh]	4.096					
Nominal Capacity[kWh]	8.19~16.38	8.19~16.38	12.29~16.38	12.29~16.38	16.38	16.38
90%DOD Available Capacity[kWh]	7.37~14.74	7.37~14.74	11.06~14.74	11.06~14.74	14.74	14.74
General Data						
Operating Temperature Range[℃]	0~40					
Operating Altitude[m]	<2000					
Ingress Protection Rating	IP65					
Relative Humidity[%]	0~95，No condensation					
Dimension(W*D*H)[mm]	460*375*1224~1672					
Single Battery Weight[kg]	40					
PCS+BCU+Base weight [kg]	47					
Certification						
Safety Standards	IEC/EN 62109-1/-2					
EMC Standards	IEC/EN 61000-6-1/-3					
On-grid Standard	CEI 0-21,NRS097-2-1:2017,G98 G99,VDE-AR-N 4105:2018,CQC 3310-2014					

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