Residential Stackable Energy Storage System

KOYOE

Applicable to household distributed energy storage scenarios

5-25kW Distributed Photovoltaic energy storage hybrid stacking system

Product Models

- KYT08kW-(20-30)kWh-S
- KYT10kW-(20-30)kWh-S
- KYT12kW-(25-30)kWh-S
- KYT15kW-30kWh-S
- KYT20kW-(40-50)kWh-S
- KYT25kW-50kWh-S



Three-phase Five-wire Four-bridge

100%

Support **100%** three-phase imbalance

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 **180V-900V**
Battery Ultra-widevoltage range **180V-700V**

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*Specifications are subject to the actual nameplate of the product

Model	KYT08kW- (20-30) kWh-S	KYT10kW- (20-30) kWh-S	KYT12kW- (25-30) kWh-S	KYT15kW-30kWh-S	KYT20kW- (40-50) kWh-S	KYT25kW-50kWh-S
PV Input Data						
Max. Input Power[W]	13600	17000	20400	25500	34000	42500
Max. Input Voltage[V]	1000					
Operating Voltage Range[V]	180~900					
Max. Input Current[A]	18/18			36/36		
Max. Short Circuit Current[A]	21/21			42/42		
Number of MPPT Trackers	2			2		
Number of Strings per MPPT	1/1			2/2		
MPPT Efficiency [%]	99.99					
AC Data(On-grid Interface)						
Nominal Output Power[W]	8000	10000	12000	15000	20000	25000
Max. Apparent Output Power [VA]	8800	11000	13200	16500	22000	27500
Max Input Power[W]	16000	18000	18000	30000		
Nominal Output Voltage[Vac]	380/400V,3L/N/PE					
Nominal Output Frequency[Hz]	50/60					
Max. Output Current[A]	12.7	16	19	24	32	40
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]	8000	10000	12000	15000	20000	25000
Max. Apparent Output Power [VA]	8800	11000	13200	16500	22000	27500
Nominal Output Voltage[Vac]	380/400V,3L/N/PE					
Nominal Output Frequency[Hz]	50/60					
Peak Output Apparent Power[VA](60s)	9600	12000	14400	18000	22000	29000
Peak Output Apparent Power[VA](10s)	12000	15000	18000	22500	30000	30000
On/Off grid switching time [ms]	<10					
AC Data(Diesel Gen.)						
Nominal Voltage[Vac]	380/400V,3L/N/PE					
Nominal Frequency[Hz]	50/60					
Nominal Input Apparent Power[VA]	16000	18000	18000	30000		
Battery Data						
Battery type	LFP					
Singel Working voltage range[V]	44.8~58.4					
Battery model	KY-51V100AH					
Max. Charge/Discharge Power[W]	8000	10000	12000	15000	20000	25000
Number of Batteries	4-6	4-6	5-6	6	8-10	10
Single Battery Capacity[kWh]	5.12					
Nominal Capacity[kWh]	20.48-30.72	20.48-30.72	25.6-30.72	30.72	40.96-51.2	51.2
90%DOD Available Capacity[kWh]	18.43-27.65	18.43-27.65	23.04-27.65	27.65	36.86-46.08	46.08
General Data						
Operating Temperature Range[℃]	0~40					
Operating Altitude[m]	<2000					
Ingress Protection Rating	IP65					
Relative Humidity[%]	0~95，No condensation					
PCS+BCU+Base Dimension (W*D*H)[mm]	590*390*909					
Single Battery Dimension (W*D*H)[mm]	590*390*194					
Single Battery Weight[kg]	46					
PCS+BCU+Base weight [kg]	77					
Certification						
Safety Standards	EN 62109-1/-2					
EMC Standards	IEC/EN 61000-6-1/-3					
On-grid Standard	AS4777.2:2020,NRS097-2-1:2017,EN 50549-1 for Czech,VDE-AR-N 4105:2018,EN50549-1:2019+AC:2,G98 G99,OVE-R25,EN50549-1:2019 for Poland A&B					

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