KOYOE

Applicable to household energy storage scenarios

10/12kW-25kWh Distributed Photovoltaic Energy Storage Hybrid System

Product Models

- KYT10kW-20kWh-A
- KYT12kW-25kWh-A
- KYT10kW-25kWh-A

Plug-in Installation

Easy installation
labor saving

Three-Level Fire Protection

Battery cell fire extinguishing sticker
Battery pack aerosol fire protection
Energy storage cabinet active fire detector

Smart and friendly

Equipped with self-developed EMS to ensure safety

Multiple Systems in Parallel

Up to 40 units can be connected in parallel

*Requires parallel controller (under grid connected condition)

Model	KYT10kW-20kWh-A	KYT10kW-25kWh-A	KYT12kW-25kWh-A
PV Input Data			
Max. Input Power[W]	17000	17000	20400
Max. Input Voltage[V]	1000		
Operating Voltage Range[V]	180~900		
Max. Input Current[A]	18/18		
Max. Short Circuit Current[A]	21/21		
Number of MPPT Trackers	2		
Number of Strings per MPPT	1/1		
MPPT Tracking Efficiency (%)	99.99		
AC Data(On-grid Interface)			
Nominal Output Power[W]	10000		12000
Max. Apparent Output Power [VA]	11000		13200
Max Input Power[W]	18000		18000
Nominal Output Voltage[Vac]	380/400V，3L/N/PE		
Nominal Output Frequency[Hz]	50/60		
Max. Output Current[A]	16		19
Max. Three-phase Unbalanced Output Current[A]	22		26
Power grid bypass current (A)	35		
Power Factor	~1(0.8 lead to 0.8 lag can be set)		
Total Harmonic Distortion[%]	< 3		
AC Data(Off-grid Interface)			
Nominal Output Power[W]	10000		12000
Max. Apparent Output Power [VA]	11000		13200
Nominal Output Voltage[Vac]	380/400V，3L/N/PE		
Nominal Output Frequency[Hz]	50/60		
Max. Three-phase Unbalanced Output Current[A]	22		26
Max. Output Three-phase Apparent Power[VA]	5000		6000
Peak Output Apparent Power[VA](60s)	12000		14400
Peak Output Apparent Power[VA](10s)	15000		18000
On/Off grid switching time [ms]	< 10		
Efficiency			
Efficiency of System [%]	88（0.5C charge & discharge @25±2℃）		
Battery Data			
Battery type	LFP		
Nominal Voltage[V]	204	255	255
Working voltage range[V]	179.2~233.6	224~292	224~292
Battery model	KY-51V100AH		
Max. Charge/Discharge Power[W]	10000	10000	12000
Nominal Charge/Discharge Current[A]	50/50	39/39	47/47
Number of Batteries	4	5	5
Single Battery Capacity[kWh]	5.12		
Nominal Capacity[kWh]	20.48	25.60	
90%DOD Available Capacity[kWh]	18.43	23.04	
Temperature Control System			
Temperature Control System	Intelligent air conditioning		
Fire Fighting System			
Active	Detector+Condensed aerosol fire extinguishing device		
Passive	Condensed aerosol fire extinguishing device		
General Data			
Operating Temperature Range[℃]	-20~50（>45 derating）		
Altitude[m]	<2000		
Ingress Protection Rating	IP54		
Relative Humidity[%]	0~95，No condensation		
Dimension(W*D*H)[mm]	650*987*1680		
Weight [kg]	410	460	460
Certification			
Safety Standards	IEC/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		