

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°C)	
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[°C]		-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		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		