

Applicable to C&I Energy Storage Scenarios

30/40/50/60kW-121kWh Distributed Photovoltaic Energy Storage Hybrid System

Product Models

- ◆ KYT30kW-108kWh-A
- ◆ KYT40kW-108kWh-A
- ◆ KYT50kW-108kWh-A
- ◆ KYT60kW-108kWh-A
- ◆ KYT30kW-121kWh-A
- ◆ KYT40kW-121kWh-A
- ◆ KYT50kW-121kWh-A
- ◆ KYT60kW-121kWh-A



Plug-in Installation



Easy installation
labor saving

Four-Level Fire Protection



Accurate monitoring to
prevent problems
Multiple barriers, solid
protection

Support Diesel Engine



Optimize resource
allocation Enhance
power supply reliability

Multiple Systems in Parallel



Up to 40 units can be
connected in parallel

*Requires parallel collectors (under grid-connected condition)

Model	KYT30kW-108kWh-A	KYT30kW-121kWh-A	KYT40kW-108kWh-A	KYT40kW-121kWh-A	KYT50kW-108kWh-A	KYT50kW-121kWh-A	KYT60kW-108kWh-A	KYT60kW-121kWh-A
PV Input Data								
Max. Input Power[W]	51000		68000		85000		102000	
Max. Input Voltage[V]	1000							
MPPT Operating Voltage Range/Nominal Input Voltage[V]	180~900/610							
Max. Input Current[A]	36/36/36				36/36/36/36			
Max. Short Circuit Current[A]	40/40/40				40/40/40/40			
Number of MPPT Trackers	3				4			
Number of Strings per MPPT	2/2/2				2/2/2/2			
AC Output Data(GRID)								
Nominal Output Power[W]	30000		40000		50000		60000	
Max. Apparent Power [VA]	33000		44000		55000		66000	
Max Input Power[W]	60000							
Nominal Output Voltage[Vac]	380/400V,3L/N/PE							
Nominal Output Frequency[Hz]	50/60							
Max. Output Current[A]	47		63		79		95	
Max. Three-phase Unbalanced Output Current[A]	47		63		79		95	
Grid Bypass Current[A]	87							
Power Factor	~1 (0.8 lead to 0.8 lag can be set)							
Total Harmonic Distortion[%]	<3							
AC Output Data(EPS)								
Nominal Output Power[W]	30000		40000		50000		60000	
Max. Apparent Power [VA]	33000		44000		55000		66000	
Nominal Output Voltage[Vac]	380/400V,3L/N/PE							
Nominal Output Frequency[Hz]	50/60							
Max. Three-phase Unbalanced Output Current[A]	47		63		79		95	
Max. Output Single-phase Apparent Power[A]	11000		14600		18000		22000	
Peak Output Apparent Power[VA](60s)	36000		48000		60000		72000	
Peak Output Apparent Power[VA](10s)	45000		60000		75000		75000	
On/off Grid switching time [ms]	<10ms							
AC Output Data(GEN)								
Nominal Voltage[Vac]	380/400V,3L/N/PE							
Nominal Frequency[Hz]	50/60							
Nominal Input Apparent Power[VA]	30000		40000		50000		60000	
Efficiency								
Efficiency of standard ambient temperature system[%]	88							
Battery Data								
Operating Voltage Range[V]	336~438							
Battery model	KY-64V280AH-A00	KY-64V314AH-A00	KY-64V280AH-A00	KY-64V314AH-A00	KY-64V280AH-A00	KY-64V314AH-A00	KY-64V280AH-A00	KY-64V314AH-A00
Nominal Charge/Discharge Current[A]	140/140	157/157	140/140	157/157	140/140	157/157	140/140	157/157
Max. Charge/Discharge Current[A]	160/160	176/176	160/160	176/176	160/160	176/176	160/160	176/176
Number of Batteries	6							
Single Battery Capacity[kWh]	17.92	20.09	17.92	20.09	17.92	20.09	17.92	20.09
Nominal Capacity[kWh]	108	121	108	121	108	121	108	121
Available Capacity[kWh]	96.7	108.9	96.7	108.9	96.7	108.9	96.7	108.9
Temperature Control System								
Temperature Control System	Intelligent air conditioning							
Fire Fighting System								
Active	Detector+Condensed aerosol fire extinguishing device+Water Fire-Protection							
Passive	Condensed aerosol fire extinguishing device							
Explosion-proof	Passive presure explosion-proof valve							
General Data								
Operating Temperature Range [℃]	-25~60 (>45derating)							
Altitude[m]	<4000							
Ingress Protection Rating	IP54							
Relative Humidity[%]	0~95, No condensation							
Dimension(W*D*H)[mm]	941.8*1346*2203							
Weight[kg]	1400							
Certification								
Safety Standards	IEC62109-1/-2							
EMC Standards	EN61000-6-1/-3,IEC61000							
On-grid Standard	CEI 0-21.NRS097-2-1:2017,VDE-AR-N 4105:2018, COC 3310-2014							