KOYOE

Applicable to C&I Energy Storage Scenarios

100/125kW-215/241kWh Energy Storage

Product Models

- KYT100kW-215kWh-B
- KYT100kW-241kWh-B
- KYT125kW-241kWh-B

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

*External STS is required

Multiple Systems in Parallel

Up to 40 units can be connected in parallel

*Requires parallel collectors (under grid-connected condition)

Model	KYT100kW-215kWh-B	KYT100kW-241kWh-B	KYT125kW-241Wh-B
AC Data(working with grid)			
Nominal Output Power[W]	100000		125000
Max. Apparent Power [VA]	110000		137000
Max Input Power[W]	110000		137000
Nominal Output Voltage[Vac]	380/400V,3L/N/PE		
Nominal Output Frequency[Hz]	50/60		
Max. Output Current[A]	160		200
Max. Three-phase Unbalanced Output Current[A]	160		200
Power Factor	~1 (0.8 lead to 0.8 lag can be set)		
Total Harmonic Distortion[%]	<3		
AC Data(working without grid)			
Nominal Output Power[W]	100000		125000
Max. Apparent Power [VA]	110000		137500
Nominal Output Voltage[Vac]	380/400V,3L/N/PE		
Nominal Output Frequency[Hz]	50/60		
Max. Three-phase Unbalanced Output Current[A]	160		200
Max. Output Single-phase Apparent Power[VA]	37000		45800
Peak Output Apparent Power[VA](60s)	120000		140000
Peak Output Apparent Power[VA](10s)	150000		150000
Off grid switching time [ms]	<10ms		
Efficiency			
Efficiency of System [%]	88（0.5Ccharge & discharge@25±2℃)		
Battery Data			
Battery type	LFP		
Nominal Voltage[V]	768		
Working voltage range[V]	672~876		
Battery model	KY-64V280AH	KY-64V314AH	KY-64V314AH
Max. Charge/Discharge Power[W]	100000		125000
Cycle	cell ≥8000 cycles，25±2℃，0.5C，90%DOD，70%EOL		
Nominal Charge/Discharge Current[A]	130/130	130/130	160/160
Number of Batteries	12		
Single Battery Capacity[kWh]	17.92	20.09	20.09
Nominal Capacity[kWh]	215	241	241
90%DODAvailable Capacity[kWh]	194	217	217
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[℃]	-20~50（>45derating)		
Altitude[m]	<2000		
Ingress Protection Rating	IP54		
Relative Humidity[%]	0~95，No condensation		
Maximum noise index [dB]	<70		
communication interface	RS485/Wifi		
Communication protocol	Modbus		
Dimension(W*H*D)[mm]	1200*1578*2340		
Weight [kg]	2400		
handling mode	Forklift and lifting ring are available		
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，CQC 3310-2014，VDE-AR-N 4110:4120		