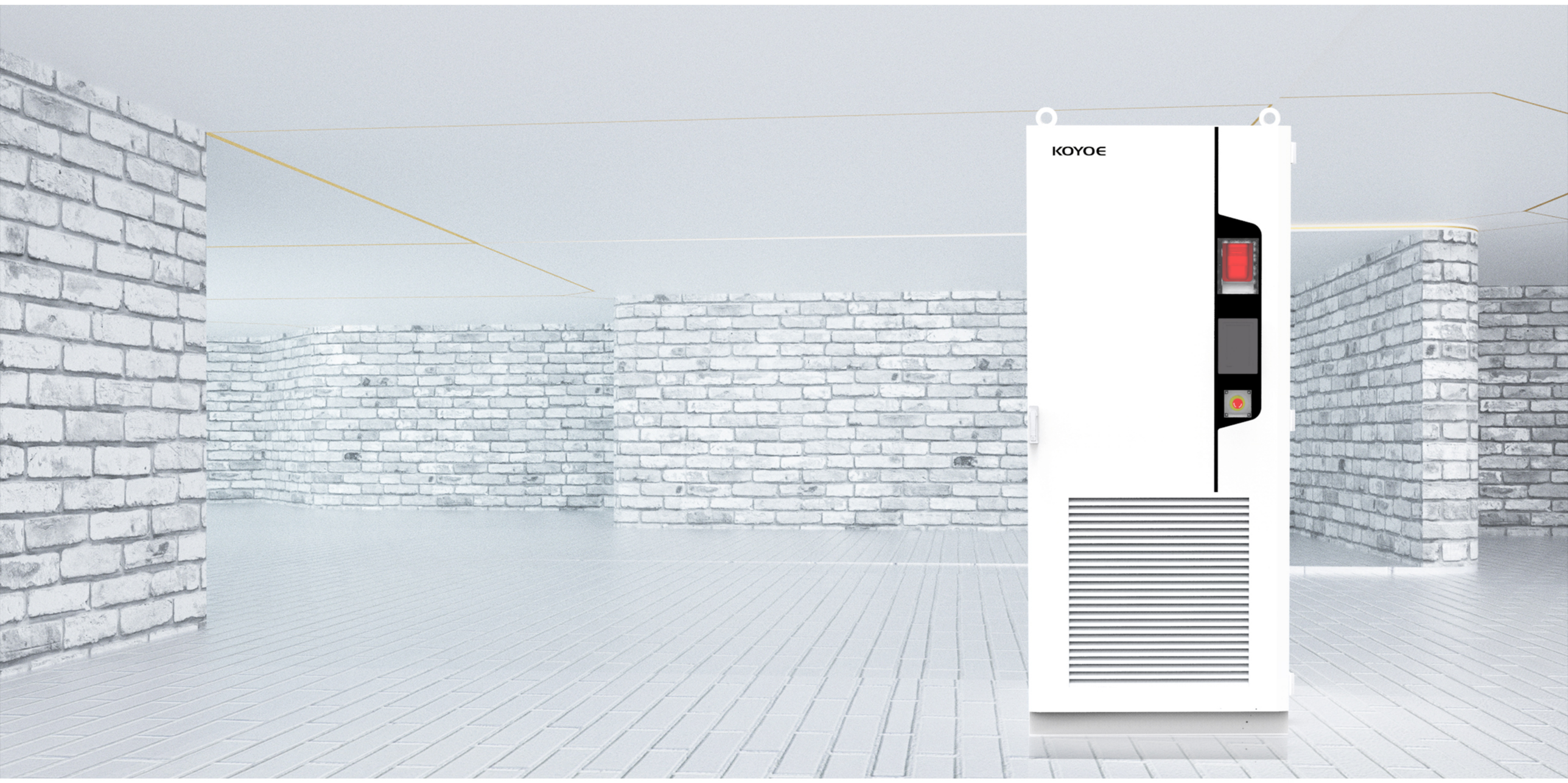
KOYOE

Applicable to C&I Energy Storage Scenarios

100/125kW-233/261kWh (Liquid cooling)Energy Storage

Product Models

- KYT100kW-233kWh-B
- KYT100kW-261kWh-B
- KYT125kW-261kWh-B



Efficient temperature control

Efficient heat dissipation and uniform temperature control， low noise and energy-saving, widely adaptable

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-233kWh-B	KYT100kW-261kWh-B	KYT125kW-261kWh-B
AC Data(working with grid)			
Nominal Output Power[W]	100000		125000
Max. Apparent Power [VA]	110000		137500
Max Input Power[W]	110000		137500
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]	832		
Working voltage range[V]	728~949		
Battery model	KY-166V280AH	KY-166V314AH	KY-166V314AH
Max. Charge/Discharge Power[W]	100000		125000
Cycle	cell ≥8000 cycles，25±2℃，0.5C，90%DOD，70%EOL		
Nominal Charge/Discharge Current[A]	120/120	120/120	150/150
Number of Batteries	5		
Single Battery Capacity[kWh]	46.59	52	52
Nominal Capacity[kWh]	233	261	261
90%DODAvailable Capacity[kWh]	210	235	235
Temperature Control System			
Temperature Control System	Liquid cooled unit		
Fire Fighting System			
Active	Detector+ Novec 1230+Water Fire Protection		
Passive	Novec 1230		
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]	1000*1300*2457		
Weight [kg]	2800		
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		