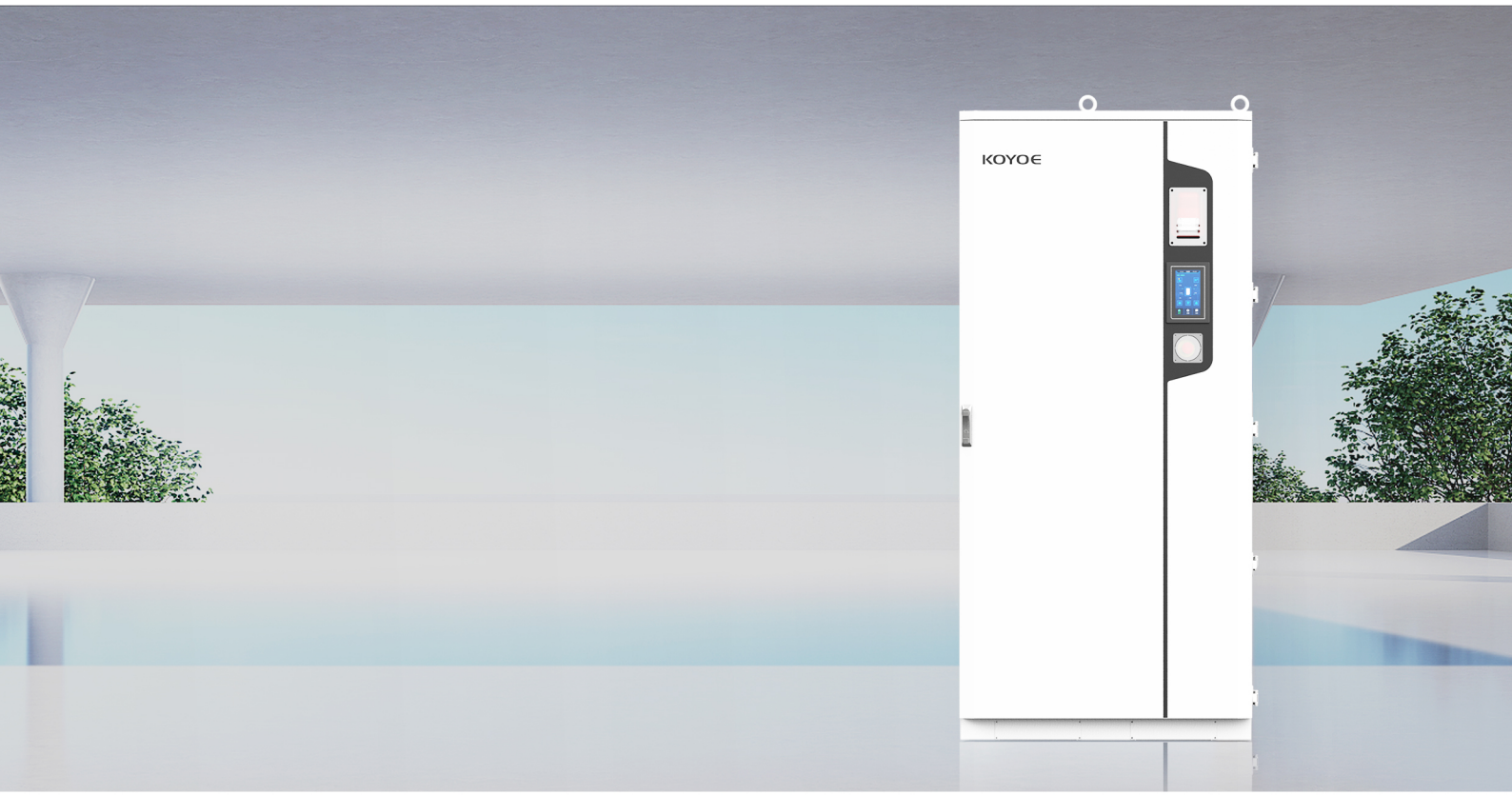
Applicable to household energy storage scenarios

15/20/25kW-60kWh Distributed Photovoltaic Energy Storage Hybrid System

Product Models

- KYT15kW-30kWh-A
- KYT25kW-60kWh-A
- KYT20kW-46kWh-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

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 controller (under grid connected condition)

Model	KYT15kW-30kWh-A	KYT20kW-46kWh-A	KYT25kW-60kWh-A
PV Input Data			
Max. Input Power[W]	25500	34000	42500
Max. Input Voltage[V]		1000	
Operating Voltage Range[V]		180~900	
Max. Input Current[A]		36/36	
Max. Short Circuit Current[A]		42/42	
Number of MPPT Trackers		2	
Number of Strings per MPPT		2/2	
MPPT Tracking Efficiency [%]		99.99	
AC Data(On-grid Interface)			
Nominal Output Power[W]	15000	20000	25000
Max. Apparent Output Power [VA]	16500	22000	27500
Max Input Power[W]		30000	
Nominal Output Voltage[Vac]		380/400V，3L/N/PE	
Nominal Output Frequency[Hz]		50/60	
Max. Output Current[A]	24	32	40
Max. Three-phase Unbalanced Output Current[A]	33	43	43
Power grid bypass current [A]		50	
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]	15000	20000	25000
Max. Apparent Output Power [VA]	16500	22000	27500
Nominal Output Voltage[Vac]		380/400V，3L/N/PE	
Nominal Output Frequency[Hz]		50/60	
Max. Three-phase Unbalanced Output Current[A]	33	43	43
Max. Output Single-phase Apparent Power[VA]	7500	10000	10000
Peak Output Apparent Power[VA](60s)	18000	24000	29000
Peak Output Apparent Power[VA](10s)	22500	30000	30000
On/Off grid switching time [ms]		< 10	
AC Data(Diesel Gen.)			
Nominal Voltage[Vac]		380/400V，3L/N/PE	
Nominal Frequency[Hz]		50/60	
Nominal Input Apparent Power[VA]		30000	
Efficiency			
Efficiency of System [%]		88（0.5C charge & discharge @25±2℃）	
Battery Data			
Battery type		LFP	
Nominal Voltage[V]	304	456	608
Working voltage range[V]	268.8~350.4	403.2~525.6	537.6~700.8
Battery model		KY-76V100AH	
Max. Charge/Discharge Power[W]	15000	20000	25000
Nominal Charge/Discharge Current[A]	50/50	43/43	41/41
Number of Batteries	4	6	8
Single Battery Capacity[kWh]		7.68	
Nominal Capacity[kWh]	30.72	46.08	61.44
90%DOD Available Capacity[kWh]	27.65	41.47	55.30
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	
Explosion-proof		Passive presure explosion-proof valve	
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*1300*1900	
Weight [kg]	620	760	900
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	