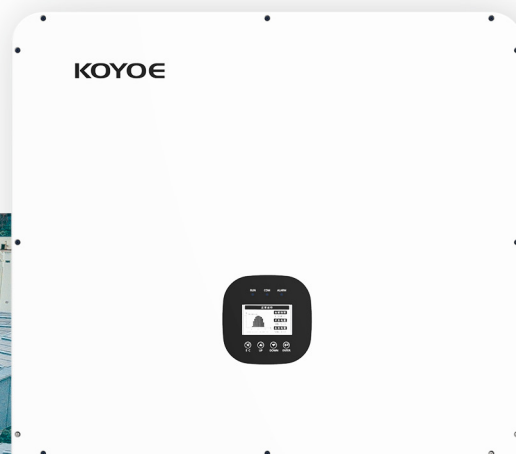


Applicable to C&I Distributed Energy Storage Scenarios Product Models

30-60kW Three-phase/Hybrid Inverter

Product Models


- ◆ KY-EST30KH
- ◆ KY-EST40KH
- ◆ KY-EST50KH
- ◆ KY-EST60KH




Three-phase Five-wire Four-bridge

 Support **100%**
three-phase unbalance


Overload Capacity

 **1.1** times for long-term
operation; **1.2** times/**60s**

Fault Recording Remote Recovery

 Real-time fault recording
remote analysis to
restore faults

Fast Grid Construction Seamless Switching

 Self-configured frequency
phase within **20ms**
Achieve single machine on/
off-grid switching within **10ms**

Model	KY-EST30KH	KY-EST40KH	KY-EST50KH	KY-EST60KH
PV Input Data				
Max. Input Power[W]	51000	68000	85000	102000
Max. Input Voltage[V]			1000	
Operating Voltage Range[V]			180~900	
Max. Input Current[A]	36/36/36			36/36/36/36
Max. Short Circuit Current[A]	42/42/42			42/42/42/42
Number of MPPT Trackers	3			4
Number of Strings per MPPT	2/2/2			2/2/2/2
MPPT Tracking Efficiency [%]			99.99	
Battery Data				
Battery Voltage Range[V]			200~850	
Input Number			1	
Max.Charge/Discharge Current[A]			140/140	
Max.Charge/Discharge Power[W]	30000	40000	50000	60000
Battery Type			Li-ion/Lead-acid	
AC Data(On-grid Interface)				
Nominal Output Power[W]	30000	40000	50000	60000
Max. Apparent Output Power[VA]	33000	44000	55000	66000
Max Input Power[W]			60000	
Nominal Voltage[Vac]			380/400V,3L/N/PE	
Nominal 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 Data(On-grid Interface)				
Nominal Output Power[W]	30000	40000	50000	60000
Max. Apparent Output Power[VA]	33000	44000	55000	66000
Nominal Voltage[Vac]			380/400V,3L/N/PE	
Nominal Frequency[Hz]			50/60	
Max. Output Three-phase Apparent Power[VA]	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
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]			60000	
Efficiency				
Max. Efficiency[%]			98.2	
European Efficiency[%]			97.1	
Protective Devices				
DC Reverse Polarity Protection			integrated	
Over Current Protection			integrated	
Anti islanding protection			integrated	
AC short circuit protection			integrated	
Leakage current protection			integrated	
Insulation resistance testing			integrated	
Surge protection			DC Type II / AC Type III	
General Data				
Operating Temperature Range[°C]			-25~60 (>45 derating)	
Operating Altitude[m]			<4000	
Maximum noise index [dB]			<40	
Topology			Transformerless isolation	
Cooling Method			Forced air cooling	
Degree of Protection			IP65	
Relative Humidity[%]			0~95, No condensation	
DC Connection Type			MC/Amphenol/Phoenix	
AC Connection Type			terminal	
Interaction			LCD,RS485	
Cloud Communication			RS485(WIFI/4G optional)	
BMS Communication			CAN	
Meter Communication			RS485	
Installation Method			Wall-mounted/bracket	
Dimension(W*D*H)[mm]			800*875*350	
Weight[kg]			100(Excluding back hanging board)	
Certification				
Safety Standards			EN 62109-1/-2	
EMC Standards			IEC/EN 61000-6-1/-2/-3/-4	
On-grid Standard			CEI 0-21,NRS097-2-1:2017,VDE-AR- N 4105:2018, CQC 3310-2014	