Three-Phase Solar-Storage Hybrid Inverter

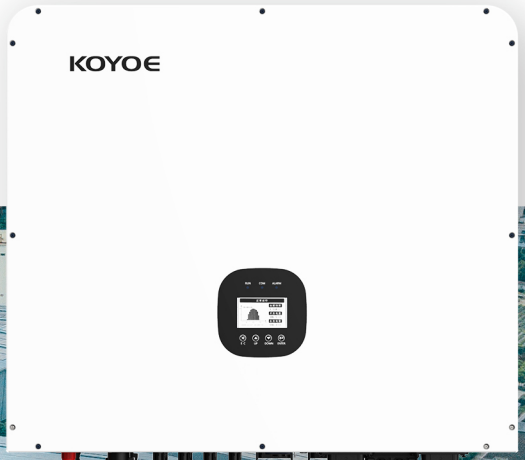
KOYOE

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**

Jiangsu Koyoe Energy Technology Co., Ltd.

No. 40, Wangwu Road, Wuzhong District, Suzhou, Jiangsu Province, China | +86 400-900-9536 | www.koyoe.com | info@koyoe.com

*Specifications are subject to the actual nameplate of the product

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 Vollage[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 Vollage[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[℃]	-25~60 (>45 derating)			
Operating Altitude[m]	<4000			
Maximum noise index [dB]	<40			
Topology	Transtormerless 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			

*Specifications are subject to the actual nameplate of the product