

30-60kW Hybrid Inverter

Suitable for industrial energy storage system, on/off-grid seamless switching, stable operation



Easy Installation



Ultra-Silent



IP65 Protection

KY-EST30KH
KY-EST40KH

KY-EST50KH
KY-EST60KH

• PV & Storage system

Integrated PV and storage system model, supporting various kinds of batteries, and integrates EMS smart energy management system;

• Smart switching

Modular design, supporting multiple parallel connections, expandable power and capacity:

• Wide voltage input range

Wide PV voltage input range 180V-900V.wide batteries voltagerange220V-800V:

• Safe and reliable

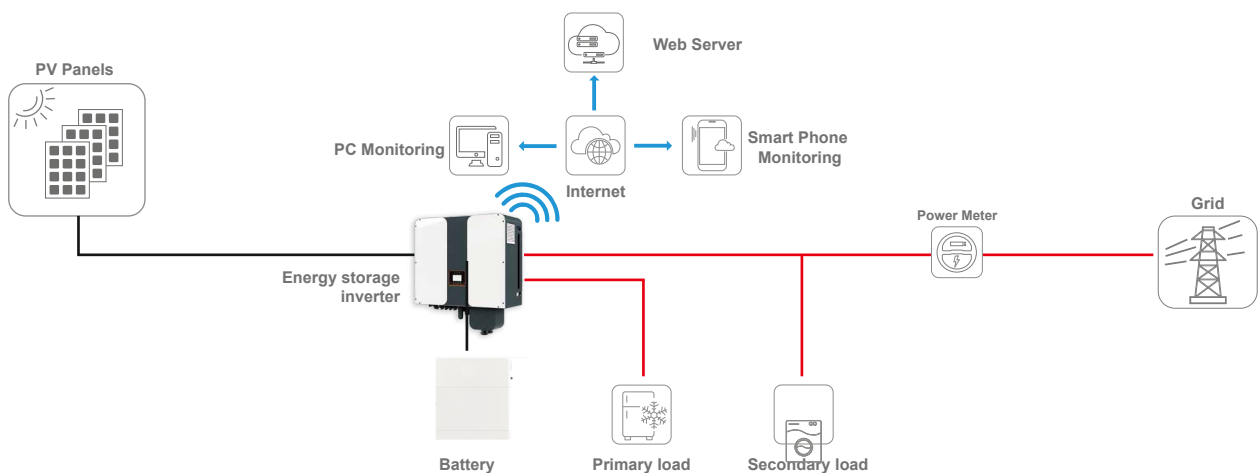
IP54 protection, all-aluminum design, built-in anti-lightning protection, high precision leakage protection;

• Smart and simple

Ultra silent, flexible communications, support remote/local USB upgrade;

• Efficient power generation

High-current instantaneous charge-discharge switching to improve power generation efficiency.



Model	KY-EST30KH	KY-EST40KH	KY-EST50KH	KY-EST60KH
PV Input Data				
Max. Input Power	45000W	60000W	75000W	90000w
Max, Input Voltage	1000v			
MPPT Operating Voltage Range	180-900V/630V			
Start-up Voltage	180V			
Max. Input Current	36A/36A/36A		36A/36A/36A/36A	
Max. Short Circuit Current	42A/42A/42A		42A/42A/42A/42A	
Number Of MPPT Trackers	3		4	
Number Of Strings Per MPPT	2/2/2/2		2/2/2/2	
Battery Input Data				
Battery Voltage Range	220-800v			
Max.Charge/Discharge Current	100A/100A			
Max.Charge/Discharge Power	30000W	40000W	50000W	60000W
Battery Type	Li-ion			
AC Output Data(On-grid)				
Nominal Output Power	30000W	40000W	50000W	60000W
Max. Apparent Power	30000VA	40000VA	50000VA	60000VA
Nominal Output Voltage	380V/400V, 3L/N/PE			
Nominal Output Frequency	50Hz/60Hz			
Max.Output Current	45A	60A	75A	87A
Power Factor	~1 (0.8 lead to 0.8 lag can be set			
Total Harmonic Distortion	<3%			
AC Output Data(Back-up)				
Nominal Output Voltage	380V/400V., 3L/N/PE			
Nominal Output Frequency	50Hz /60Hz			
Nominal Output Current	45A	60A	75A	87A
Nominal Output Power	30000w	40000W	50000W	60000W
Max. Apparent Power	30000VA	40000VA	50000VA	60000VA
Max.Single-phase Apparent Power	10000VA	13000VA	17000VA	20000VA
Switching Time	<10ms			
Efficiency				
Max. Efficiency	98.40%		98.60%	
European Efficiency	97.50%		97.50%	
Protection				
AC Overcurrent Protection	Integrated			
Ground Fault Protection	Integrated			
Power Network Monitoring	Integrated			
Residual Current Monitoring	Integrated			
General Data				
Operating Temperature Range	-25°C~60°C(>45°C Derating)			
Altitude	<4000m (> 2000m Derating)			
Noise Emission	<40dB			
Topology	Transformerless Isolation			
Cooling	Integrated Fan			
Ingress Protection Rating	IP54			
Relative Humidity	0~90%,No Condensation			
DC Connector Type	Quick-plug Terminal			
AC Connector Type	Termianl			
Display	LCD			
Cloud Communication	RS485 (WiFi/4G/GPRS Optional)			
BMS Communication Mode	CAN			
Communication with Meter	RS485			
Installation	Wall-mounted/Landing			
Self-consumption at Night	< 10W			
Dimension (W*D*H)	800*350*875mm			
Weight	102kg			
Certification				
Safety Standards	IEC62109-1/2			
EMC Strandards	EN61000-6-1/-2/3,IEC61000			
On-grid Standard	NRS097-2-1:2017,CQC 3310-2014			