

10-20kW Hybrid Inverter / Three-phase

Suitable for medium and big-sized household systems and intelligent switching on/off



Easy Installation



Ultra-silent



IP65 protection



► PV & storage system

Integrated PV and storage system model, high self-use efficiency, with UPS Uninterrupted Power Supply;

► Smart switching

UPS function, supporting three-phase imbalance, on/off grid switch within 10ms;

► Wide voltage input range

Wide PV voltage input range 180V-950V, wide batteries voltage range 180V-550V;

► Safe and reliable

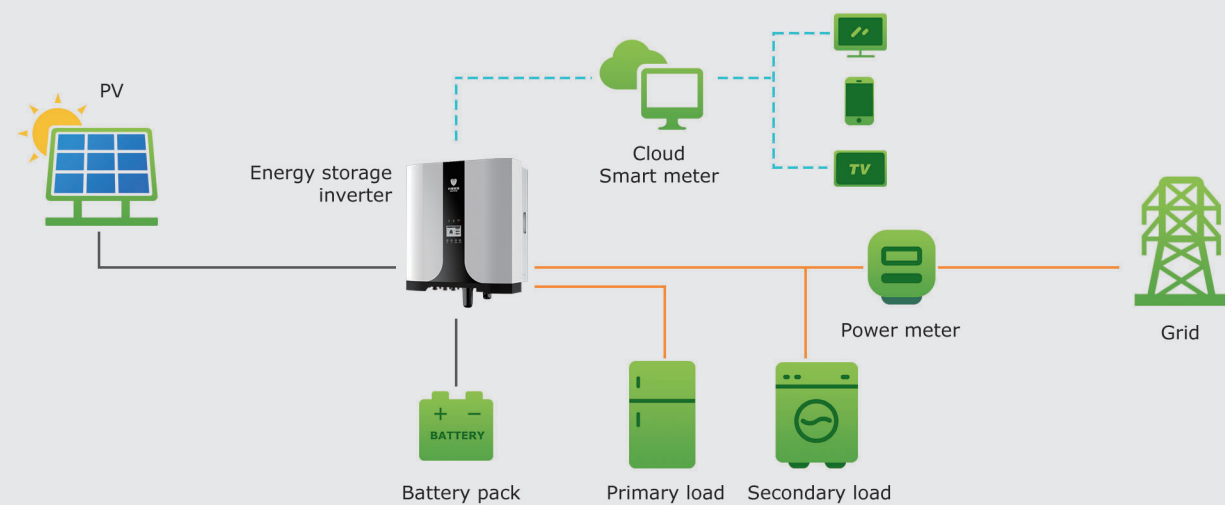
IP65 protection, high electricity quality, no interference with other equipment, low radiation;

► Smart and simple

Small size, light and easy to install, support GPRS/WIFI/RS485/USB upgrade;

► High-efficiency

Max Efficiency 98.2%, smart MPPT, tracing efficiency up to 99.99%.



Model		KY-EST10KH	KY-EST15KH	KY-EST20KH
Efficiency	Max.Efficiency	>98.2%	>98.2%	>98.2%
PV Input	Max. PV input power(W)	13000	19500	26000
	Max. PV input voltage(V)	1000	1000	1000
	MPPT Operation Voltage Range(V)	180-950	180-950	180-950
	Number of MPPT/PV Strings	2/1	2/2	2/2
	Max. PV input current(A)	15/15	12.5/23	23/23
	Short-circuit current of PV input(A)	18/18	15/30	30/30
Battery	Max Input/Output Voltage(V)	550	700	700
	Operating Voltage Range(V)	180-550	180-700	180-700
	Max Charge/Discharge Current(A)	25/30	50/50	50/50
	Max Input/Output Power(W)	20000/20000	15000/15000	20000/20000
	Battery Type	Li-ion/Lead-acid	Li-ion/Lead-acid	Li-ion/Lead-acid
AC Input and Output	Rated Power(W)	10000	15000	20000
	Max. Apparent AC Power(VA)	10000	15000	20000
	Nominal AC Voltage(Vac)	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE
	AC Power Frequency(Hz)	50/60	50/60	50/60
	Max. AC Output Current(A)	15	22	31
	Power Factor Range	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
	OutputTHDi(@Nominal Output)	<3%	<3%	<3%
	Rated Output Power(W)	10000	15000	20000
	Max. Apparent AC Output Power(VA)	10000	15000	20000
	Nominal AC Output Voltage(Vac)	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE
Off-Grid AC Output (Back-up AC Output)	AC Power Frequency(Hz)	50/60	50/60	50/60
	Max. AC Output Current(A)	15	22	31
General Data	Operating Temperature Range	-25°C ...+60°C(>45°C derating)		
	Operating Altitude(m)	<4000		
	Noise(dB)	<45		
	Topology	Transformerless		
	Cooling Method	Natural convection		
	Ingress Protection Rating	IP65		
	Relative Humidity	0-100%, no condensation		
	DC Connection Type	MC/Amphenol/Phoenix		
	AC Connection Type	Plug-in Connector		
	Display	LCD		
	Communication With Portal	RS485 (WIFI/GPRS Optional)		
	Communication With BMS	CAN		
	Communication With Meter	RS485		
	Mounting Method	Wall-mounting bracket		
	Dimensions (W*D*H)(mm)	505*570*220	505*630*220	505*630*220
Weight(Kg)	23	23	24	
Certification	Safety	IEC62109-1/-2		
	EMC	EN61000-6-1/-2/-3,IEC61000		
	On-Grid standard	AS4777.2,NRS097-2-1:2017, PN-EN50549-1:2019, VDE-AR-N 4105:2018, EN50549-1:2019+AC:2019-04		