

12-20KW Three-Phase Energy Storage Inverter(built-in)					
Model		KY-EST12KH-A	KY-EST15KH-A	KY-EST17KH-A	KY-EST20KH-A
Efficiency	Max.Efficiency	>98.2%			
PV Input	Max. PV input power(W)	15600	19500	22100	26000
	Max. PV input voltage(V)	1000			
	MPP Operation Voltage Range(V)	180-950			
	Max. number of PV strings per MPPT	1/1	1/2	2/2	
	Max. PV input current(A)	12.5/12.5	12.5/23	23/23	
	Short-circuit current of PV input(A)	13.5/13.5	13.5/25	25/25	
Battery	Max Input/Output Voltage(V)	700			
	Operating Voltage Range(V)	180-700			
	Max Charge/Discharge Current(A)	50/50			
	Max Input/Output Power(W)	12000/12000	15000/15000	17000/17000	20000/20000
	Battery Type	Li-ion/Lead-acid			
AC Input and Output	Rated Power(W)	12000	15000	17000	20000
	Max. Apparent AC Power(VA)	12000	15000	17000	20000
	Nominal AC Voltage(Vac)	380,3L/N/PE			
	AC Power Frequency(Hz)	50/60			
	Max. AC Output Current(A)	18	22	25	31
	Power Factor Range	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
	OutputTHDi(@Nominal Output)	<3%			
Off-Grid AC Output(Back-up AC Output)	Rated Output Power(W)	12000	15000	17000	20000
	Max. Apparent AC Output Power(VA)	12000	15000	17000	20000
	Nominal AC Output Voltage(Vac)	380,3L/N/PE			
	AC Power Frequency(Hz)	50/60			
	Max. AC Output Current(A)	18	22	25	31
General Data	Operating Temperature Range	-25℃ ...+60℃(>45℃ derating)			
	Operating Altitude(m)	<4000			
	Noise(dB)	<45			
	Topology	Transformerless			
	Cooling Method	Intelligent Fan			
	Ingress Protection Rating	IP20			
	Relative Humidity	5-85%, no condensation			
	DC Connection Type	Drawer type			
	AC Connection Type	Drawer type			
	Display	LCD			
	Communication With Portal	RS485 (WiFi/GPRS Optinal)			
	Communication With BMS	CAN			
	Communication With Meter	RS485			
	Mounting Method	Built-in drawer mounting			
	Dimensions (W*D*H)(mm)	505*540*230			
	Weight(Kg)	22	23	24	24
Certification	Safety	IEC62109-1/-2			
	EMC	EN61000-6-1/-2/-3,IEC61000			
	On-Grid standard	AS4777.2,NRS097-2-1:2017			