



DATASHEET

Three-Phase Hybrid Series

KY- EST-06KH/08KH/10KH/12KH/15KH/17KH/20KH

6-10KW Three-Phase Hybrid Inverter				
Model		KY-EST06KH	KY-EST08KH	KY-EST10KH
Efficiency	Max.Efficiency	>98.2%		
PV Input and Output	Max. PV input power(W)	7800	10400	13000
	Max. PV input voltage(V)	1000		
	MPP Operation Voltage Range(V)	180-900		
	No. of MPPTs	2		
	Max. number of PV strings per MPPT	1/1	1/1	1/1
	Max. PV input current(A)	12.5/12.5	12.5/12.5	
	Short-circuit current of PV input(A)	13.5/13.5	13.5/13.5	
	Start up voltage(V)	180		
Battery Input	Max Input/Output Voltage(V)	550		
	Operating Voltage Range(V)	180-550		
	Max Charge/Discharge Current(A)	25/30		
	Max Input/Output Power(W)	6000/6000	8000/8000	10000/10000
	Battery Type	Li-ion/Lead-acid		
AC Input and Output	Rated Power(W)	6000	8000	10000
	Max. Apparent AC Power(VA)	6000	8000	10000
	Nominal AC Voltage(Vac)	400/380,3L/N/PE		
	AC Power Frequency(Hz)	50/60		
	Max. AC Output Current(A)	10	12	15
	Rated Current Output(A)	10	12	15
	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)	6000	8000	10000
	Max. Apparent AC Output Power(VA)	6000	8000	10000
	Nominal AC Output Voltage(Vac)	400/380,3L/N/PE		
	AC Power Frequency(Hz)	50/60		
	Max. AC Output Current(A)	10	12	15
General Data	Operating Temperature Range	-25°C ...+60°C(>45°C derating)		
	Operating Altitude(m)	<4000		
	Noise(dB)	<40		
	Topology	Transformerless		
	Cooling Method	Natural convection		
	Ingress Protection Rating	IP65		
	Protective class	Class 1		
	Overvoltage Category	OVCI(PV)(Battery), OVCI(AC)		
	Active anti-Islanding method	RoCoF		
	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 Optinal)		
	Communication With BMS	CAN		
	Communication With Meter	RS485		
	Mounting Method	Wall-mounting bracket		
	Dimensions (W*H*D)(mm)	505*570*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		
Country of origin	Made in China			



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Three-Phase Hybrid Series

KY- EST-06KH/08KH/10KH/12KH/15KH/17KH/20KH

12-20KW Three-Phase Hybrid Inverter					
Model		KY-EST12KH	KY-EST15KH	KY-EST17KH	KY-EST20KH
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)	180-900			
	No. of MPPTs	2			
	Max. number of PV strings per MPPT	1/1	2/1	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	
	Start up voltage(V)	180			
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)	400/380,3L/N/PE			
	AC Power Frequency(Hz)	50/60			
	Max. AC Output Current(A)	18	22	25	31
	Rated Current Output(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)	400/380,3L/N/PE			
	AC Power Frequency(Hz)	50/60			
	Max. AC Output Current(A)	18	22	25	31
Genaral Data	Operating Temperature Range	-25°C ... +60°C(>45°C derating)			
	Operating Altitude(m)	<4000			
	Noise(dB)	<45			
	Topology	Transformerless			
	Cooling Method	Intelligent Fan			
	Ingress Protection Rating	IP65			
	Protective class	Class 1			
	Overvoltage Category	OVCII(PV)(Battery), OVCI(AC)			
	Active anti-Islanding method	RoCoF			
	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 Optinal)			
	Communication With BMS	CAN			
	Communication With Meter	RS485			
	Mounting Method	Wall-mounting bracket			
	Dimensions (W*H*D)(mm)	505*630*220			
	Weight(Kg)	26	27	27	28
	Safety	IEC62109-1/-2			
	EMC	EN61000-6-1/-2/-3,IEC61000			
	On-Grid standard	AS4777.2,NRS097-2-1:2017			
	Certification	Made in China			