



**KOYOE**

DATASHEET

## Three-Phase Hybrid Series

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



# H3 SERIES



### Advanced Performance

High-voltage inverter, 97.8% max efficiency. Provides higher charge & discharge rate when combines with Koyoe ESS \*Requires additional Battery and BMS.



### Efficient Fireproofing

Internal Novec 1230 Fire Suppression Stickers. Immediately isolates oxygen and reduces temperature.



### Communication

Monitoring Platform via app and website. Supports online system upgrade.



### Customization

Combines with any other Koyoe ESS products. Supports series connection up to 6 inverters.



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Model	KY-EST06KH	KY-EST08KH	KY-EST10KH	KY-EST12KH	KY-EST15KH	KY-EST17KH	KY-EST20KH
<b>EFFICIENCY</b>							
Max.Efficiency	>98.2%	>98.2%	>98.2%	>98.4%	>98.4%	>98.4%	>98.4%
<b>PV INPUT</b>							
Max. PV input power(W)	7800	10400	13000	15600	19500	22100	26000
Max. PV input voltage(V)	1000	1000	1000	1000	1000	1000	1000
MPP Operation Voltage Range(V)	180-900	180-900	180-900	180-900	180-900	180-900	180-900
Number of MPPT/Strings per MPPT	2/1	2/1	2/1	2/1	2/1	2/2	2/2
Max. PV input current(A)	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/23	23/23	23/23
DC Start Up Voltage	180V	180V	180V	180V	180V	180V	180V
Short-circuit current of PV input(A)	15/15	15/15	15/15	15/15	15/30	30/30	30/30
<b>BATTERY</b>							
Max Input/Output Voltage(V)	550	550	550	700	700	700	700
Operating Voltage Range(V)	180-550	180-550	180-550	180-700	180-700	180-700	180-700
Max Charge/Discharge Current(A)	25/30	25/30	25/30	50/50	50/50	50/50	50/50
Max Input/Output Power(W)	6000/6000	8000/8000	10000/10000	12000/12000	15000/15000	17000/17000	20000/20000
Battery Type	Li-ion/Lead-acid						
<b>AC INPUT AND OUTPUT</b>							
Rated Power(W)	6000	8000	10000	12000	15000	17000	20000
Max. Apparent AC Power(VA)	6000	8000	10000	12000	15000	17000	20000
Nominal AC Voltage(Vac)	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE
AC Power Frequency(Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. AC Output Current(A)	10	12	15	18	22	25	31
Power Factor Range	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
OutputTHDi(@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Rated Output Current	10A	12A	15A	18A	22A	25A	31A
<b>OFF-GRID AC OUTPUT(BACK-UP AC OUTPUT)</b>							
Rated Output Power(W)	6000	8000	10000	12000	15000	17000	20000
Max. Apparent AC Output Power(VA)	6000	8000	10000	12000	15000	17000	20000
Nominal AC Output Voltage(Vac)	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE
AC Power Frequency(Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. AC Output Current(A)	10	12	15	18	22	25	31
<b>GENERAL DATA</b>							
Operating Temperature Range	-25°C ...+60°C(>45°C derating)						
Operating Altitude(m)	<4000	<4000	<4000	<4000	<4000	<4000	<4000
Noise(dB)	<40	<40	<40	<45	<45	<45	<45
Topology	Transformerless						
Cooling Method	Natural convection	Natural convection	Natural convection	Intelligent Fan	Intelligent Fan	Intelligent Fan	Intelligent Fan
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 Potral	RS485 (WiFi/GPRS Optional)						
Communication With BMS	CAN						
Communication With Meter	RS485						
Mounting Method	Wall-mounting bracket						
Dimensions (W*H*D)(mm)	505*570*220	505*570*220	505*570*220	505*630*220	505*630*220	505*630*220	505*630*220
Weight(Kg)	23	23	23	22	23	24	24
<b>CERTIFICATION</b>							
Safety	IEC62109-1/-2						
EMC	EN61000-6-1/-2/-3,IEC61000						
On-Grid standard	AS4777.2,NRS097-2-1:2017						
<b>COUNTRY</b>							
Country Of Manufacture	China						