



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
EFFICIENCY							
Max.Efficiency	>98.2%	>98.2%	>98.2%	>98.4%	>98.4%	>98.4%	>98.4%
PV INPUT							
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)	180-950	180-950	180-950	180-950	180-950	180-950	180-950
No. of MPPTs	2	2	2	2	2	4	4
Max. number of PV strings per MPPT	1/1	1/1	1/1	1/1	2/1	2/2	2/2
Max. PV input current(A)	15/15	15/15	15/15	15/15	15/28	28/28	28/28
DC Start Up Voltage	120V	120V	120V	120V	120V	120V	120V
Short-circuit current of PV input(A)	18/18	18/18	18/18	18/18	18/32	32/32	32/32
BATTERY							
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						
AC INPUT AND OUTPUT							
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
OFF-GRID AC OUTPUT(BACK-UP AC OUTPUT)							
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
GENERAL DATA							
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	<40	<40	<40	<40
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)	29	29	29	34	34	36	36
CERTIFICATION							
Safety	IEC62109-1/-2						
EMC	EN61000-6-1/-2/-3,IEC61000						
On-Grid standard	AS4777.2,NRS097-2-1:2017						
COUNTRY							
Country Of Manufacture	China						