

Applicable to Household Energy Storage Scenarios

5-25kW Three-phase/Hybrid Inverter

Product Models



Three-phase Five-wire Four-bridge



Support 100% three-phase imbalance

Fault recording remote recovery



Real-time fault recording, remote analysis and recovery

Overload capacity



1.1 times for long-term operation; **1.2** times/**60S**, **1.5** times/**10S**

Fast grid forming seamless switching



Self forming frequency phase within **20ms**Single machine on-grid and off-grid switching within **10ms**



Model	KY-EST05KH	KY-EST06KH	KY-EST08KH	KY-EST10KH	KY-EST12KH	KY-EST15KH	KY-EST17KH	KY-EST20KH	KY-EST25KH	
PV Input Data	0500	40005	42606	47000	20400	25505	20005	3,1005	10511	
Max. Input Power[W]	8500	10200	13600	17000	20400	25500	28900	34000	42500	
Max. Input Voltage[V]					1000					
Operating Voltage Range[V]					180~900					
Max. Input Current[A]			18/18				36,	/36		
Max. Short Circuit Current[A]	21/21				42/42					
Number of MPPT Trackers		2				2				
Number of Strings per MPPT						2/2				
	1/1						2,	/2		
MPPT Tracking Efficiency [%]					99.99					
Battery Data										
Battery Voltage Range[V]					200~700					
Input Number					2					
Max.Charge/Discharge Current[A]					25/25					
Max.Charge/Discharge Power[W]	5000	6000	8000	10000	12000	15000	17000	20000	25000	
Battery Type					Li-ion/Lead-acid					
AC Data(On-grid Interface)										
	5000	6000	8000	10000	12000	15000	17000	20000	25000	
Nominal Output Power[W]										
Max. Apparent Output Power[VA]	5500	6600	8800	11000	13200	16500	18700	22000	27500	
Max Input Power[W]	10000	12000	16000	18000	18000		30	000		
Nominal Vollage[Vac]					380/400V,3L/N/PE					
Nominal Frequency[Hz]					50/60					
Max. Output Current[A]	8	9.5	12.7	16	19	24	27	32	40	
Max. Three-phase Unbalanced Output Current[A]	11	13	17.5	22	26	33	37	43	43	
			35		20	33				
Grid Bypass Current[A]			33		0.01440.01		5	50		
Power Factor	~1(0.8 lead to 0.8 lag can be set)									
Total Harmonic Distortion[%]					<3					
AC Data(Off-grid Interface)										
Nominal Output Power[W]	5000	6000	8000	10000	12000	15000	17000	20000	25000	
Max. Apparent Output Power [VA]	5500	6600	8800	11000	13200	16500	18700	22000	27500	
Nominal Output Voltage[Vac]					380/400V,3L/N/PE					
					50/60					
Nominal Output Frequency[Hz]										
Max. Output Three-phase Apparent Power[VA]	11	13	17.5	22	26	33	37	43	43	
Max. Output Single-phase Apparent Power[A]	2500	3000	4000	5000	6000	7500	8500	10000	10000	
Peak Output Apparent Power[VA](60s)	6000	7200	9600	12000	14400	18000	20400	24000	29000	
Peak Output Apparent Power[VA](10s)	7500	9000	12000	15000	18000	22500	25500	30000	30000	
On/Off grid switching time [ms]					<10					
AC Data(Diesel Gen.)										
Nominal Voltage[Vac]					380/400V 3L/N/PE					
	380/400V,3L/N/PE									
Nominal Frequency[Hz]					50/60					
Nominal Input Apparent Power[VA]	10000	12000	16000	18000	18000		300	000		
Efficiency										
Max. Efficiency[%]					98.2					
European Efficiency[%]					97.1					
Protective Devices										
DC Reverse Polarity Protection					integrated					
Over Current Protection										
	integrated									
Anti islanding protection	integrated									
AC short circuit protection		integrated								
Leakage current protection	integrated									
Insulation resistance testing	integrated									
Surge protection	DC Type II / AC Type III									
General Data										
					25 .60 (> 45 denoting)					
Operating Temperature Range[°C]	-25~60 (>45 derating)									
Operating Altitude[m]	<4000									
Maximum noise index [dB]	50									
Topology	Transtormerless isolation									
Cooling Method	Forced air cooling									
Degree of Protection	IP65									
Relative Humidity[%]	0~95, No condensation									
DC Connection Type	Amphenol/Phoenix									
AC Connection Type					Plug in connector					
Interaction	LCD,RS485									
Cloud Communication	RS485(WIFI/4G optional)									
BMS Communication	CAN									
Meter Communication	RS485									
Installation Method	Wall-mounted									
Dimension(W*D*H)[mm]	505°572*235									
			35		JUJ JIE 233			10		
Weight[kg]			35				4	10		
Certification										
Safety Standards					IEC/EN 62109-1/-2					
TMC Chandrada					IEC/EN 61000-6-1/-3					
EMC Standards										