

Applicable to C&I Scenario

125kW Bidirectional Energy Storage Converter

Product Models

◆ KY-PCS100KH-A

◆ KY-PCS125KH-A



Three-phase Five-wire Four-bridge



Support **100%**
three-phase unbalance

Smart Switch



Support multiple machines
in parallel, power scalable

Fault Recording Remote Recovery



Real-time fault recording
and remote analysis to
restore faults

Fast Grid Construction Seamless Switching



Self-configured frequency
phase within **20ms**
Achieve single machine on/off
-grid switching within **10ms**
**Requires on/off-grid switch*

Model	KY-PCS100KH-A	KY-PCS125KH-A
Battery Input Data		
Battery Voltage Range(V)	700~950	
Battery Paths	1	
Max.Charge/Discharge Current(A)	200/200	
Max.Charge/Discharge Power(W)	120000	150000
Battery Type	Li-ion/Lead-acid	
AC Output Data(Used for On-grid)		
Nominal Output Power(W)	100000	125000
Max. Apparent Power (VA)	110000	137000
Max Input Power(W)	110000	137000
Nominal Output Voltage(Vac)	380/400V,3L/N/PE	
Nominal Output Frequency(Hz)	50/60	
Max. Output Current(A)	160	200
Max. Three-phase Unbalanced Output Current(A)	160	200
Power Factor	~1 (0.8 lead to 0.8 lag can be set)	
Total Harmonic Distortion(%)	<3	
AC Output Data(Used for Off-grid)		
Nominal Output Power(W)	100000	125000
Max. Apparent Power (VA)	110000	137000
Nominal Output Voltage(Vac)	380/400V,3L/N/PE	
Nominal Output Frequency(Hz)	50/60	
Max. Three-phase Unbalanced Output Current(A)	160	200
Peak Output Apparent Power(VA)(60s)	37000	45000
Peak Output Apparent Power(VA)(10s)	140000	140000
On/off Grid switching time (ms)	150000	150000
Efficiency		
Max. Efficiency(%)	98.2	
European Efficiency(%)	97.1	
Protection		
PV Reverse Polarity Protection	Integrated	
Overcurrent Protection	Integrated	
Anti-islanding Protection	Integrated	
Short Circuit Protection	Integrated	
Leakage Current Protection	Integrated	
Insulation Protection	Integrated	
Surge Protection	DC Type II /AC Type III	
General Data		
Operating Temperature Range (°C)	-25~60 (>45 derating)	
Altitude(m)	<4000	
Noise Emission (dB)	<65	
Topology	Transformerless isolation	
Cooling Method	Air cooling	
Ingress Protection Rating	IP65	
Relative Humidity(%)	0-95, No condensation	
DC Connector	Plug in Connector	
AC Connector	Plug in Connector	
Interaction	LCD,RS485	
Cloud Communication	RS485(WIFI/4G optional)	
BMS Communication	CAN	
Meter Communication	RS485	
Installation	Wall-mounted	
Dimension(W*H*D)(mm)	512*800*300	
Weight(kg)	73.5	
Certification		
Safety Standards	IEC62109-1/-2	
EMC Standards	EN61000-6-2/-4,IEC61000	
On-grid Standard	CQC 3310-2014	