Power Conversion System

KOYOE

Applicable to C&I Scenario

100/125kW 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

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*Specifications are subject to the actual nameplate of the product

Model	KY-PCS100KH-A	KY-PCS125KH-A
Battery Data		
Battery Voltage Range[V]	660~950	
Battery Paths	1	
Max.Charge/Discharge Current[A]	200	
Max.Charge/Discharge Power[W]	120000	150000
Battery Type	Li-ion/Lead-acid	
AC Data(working with grid)		
Nominal Output Power[W]	100000	125000
Max. Apparent Output 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 Data(working without 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
Max. Output Single-phase Apparent Power[VA]	37000	45000
Peak Output Apparent Power[VA](60s)	120000	140000
Peak Output Apparent Power[VA](10s)	150000	150000
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		
Operating Temperature Range[℃]	-25~60（>45 derating）	
Operating Altitude[m]	<4000	
Maximum noise index [dB]	<70	
Topology	Transtormerless isolation	
Cooling Method	Forced air cooling	
Degree of Protection	IP65	
Relative Humidity[%]	0~95，No condensation	
DC Connection Type	Plug in connector	
AC Connection Type	Plug in connector	
Interaction	LCD,RS485	
Cloud Communication	RS485(WIFI/4G optional)	
BMS Communication	CAN	
Meter Communication	RS485	
Installation Method	Rack	
Dimension(W*D*H)[mm]	466*800*300	
Weight[kg]	73.5	
Certification		
Safety Standards	IEC 62109-1/-2	
EMC Standards	EN 61000-6-2/-4,IEC 61000	
On-grid Standard	CEI 0-21,NRS097-2-1:2017,VDE-AR-N 4105:2018，CQC 3310-2014，VDE-AR-N 4110:4120	

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