

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**

Model	KY-PCS100KH-A	KY-PCS125KH-A
<b>Battery Data</b>		
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	
<b>AC Data(working with grid)</b>		
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	
<b>AC Data(working without grid)</b>		
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
<b>Efficiency</b>		
Max. Efficiency[%]	98.2	
European Efficiency[%]	97.1	
<b>Protective Devices</b>		
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	
<b>General Data</b>		
Operating Temperature Range[°C]	-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	
<b>Certification</b>		
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	