C&I ESS

POWER MAGIC

C&I ESS –**PowerMagic** – AC 400V

Efficient & Flexible | **Lower LCOS** | **Ultimate safety** | **Smart Management**

Grid | Backup Cabinet | 400V Junction Cabinet | Energy Storage Cabinet | Battery Cabinet

Lower LCOS

All-in-one design, High energy density
Plug-and-play design, quick installation & less cost

Efficient & Flexible

Modular design supports parallel connection and easy system expansion
Grid-On/Off auto-switch function, easy O&M

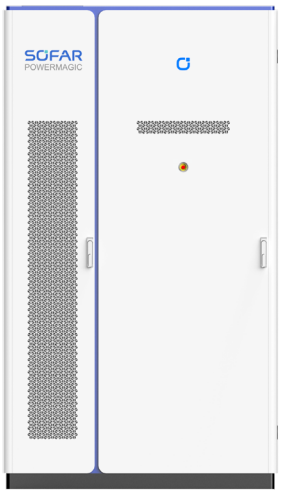
Ultimate Safety

3+2 protection design enables ultimate safety
Electricity and liquid separation reduces system risks

Smart Management

Integrated EMS enables multi-scenario energy management
Fast state monitoring and faults record enables pre-alarm and faults locating

Energy Storage Cabinet



Product Advantages

- Modular design, flexible system expansion
- Grid-on/off auto-switch
- Electrical cables and liquid pipes separated design
- 3 Level FSS+ Flammable gas emission & Explosion vents
- Liquid cooling + Anti-condensation design
- Multi-function EMS integrated

Model	ESS-258kLA-SA1	ESS-215kLA-SA1
DC Side		
Battery type	LFP/280Ah	
Rated energy	258kWh (6Pack)	215kWh (5Pack)
Rated Voltage	921.6V	768V
DC operating voltage range	734.4V~1036.8V DC	612V~864V DC
Recommend DC voltage range	777.6V~1022.4V DC	648V~852V DC
AC side		
AC Voltage	400V AC	
Rated power	125kW	
Maximum AC power	138kW	
Maximum AC current	198A	
Rated grid frequency	50Hz/60Hz	
Power factor	-1~1	
System Parameters		
Operating ambient temperature	-30℃~50℃ (Derating above 45℃)	
Storage ambient temperature	-30℃~60℃	
Operating relative humidity	0~100% (No condensation)	
Cooling type	Liquid cooling	
Fire suppression	1.Battery cell level (perfluorohexanone) 2.Canibet level (perfluorohexanone or aerosol) 3. Water fire suppression	
System configuration	AC side: Maximum 6 Energy storage cabinets in parallel DC side: Maximum 3 Battery cabinets per Energy storage cabinet	
Grid-On/Off	Auto-switch (With backup cabinet)	
Cabinet connection	Plug-in connector	
Dimension(W×D×H)	1450×1350×2200mm	
Weight	＜2.8T	＜2.5T
Ingress protection rating	IP55	
Anti-corrosion	C4 (C5 optional)	
SPD	AC: type II	
Operating altitude	≤4000m (Derating above 2000m)	
Noise level	≤60dB	
Installation	Ground mounting	
Communication interface	Ethernet, Dry connect	
Standard	IEC/EN 61000-6-2/4 , IEC62477-1 , IEC62619, UN38.3, UL9540A, UL1973	

* All specifications are subject to change without notice.

Battery Cabinet

Product Advantages

- Modular design, flexible system expansion
- Electrical cables and liquid pipes separated design
- 3 Level FSS + Flammable gas emission & Explosion vents
- Liquid cooling + Anti-condensation design

Model	ESS-258kLA-BD1	ESS-215kLA-BD1
Battery type	LFP/280Ah	
Rated energy	258kWh (6Pack)	215kWh (5Pack)
Rated Voltage	921.6V	768V
DC operating voltage range	734.4V~1036.8V DC	612V~864V DC
Recommend DC voltage range	777.6V~1022.4V DC	648V~852V DC
Operating ambient temperature	-30℃~50℃ (Derating above 45℃)	
Storage ambient temperature	-30℃~60℃	
Operating relative humidity	0~100% (No condensation)	
Cooling type	Liquid cooling	
Fire suppression	1.Battery cell level (perfluorohexanone) 2.Canibet level (perfluorohexanone or aerosol) 3. Water fire suppression	
Communication interface	CAN, RS485	
Cabinet connection	Plug-in connector	
Dimension(W×D×H)	1000×1350×2200mm	
Weight	＜2.5T	＜2.2T
Ingress protection rating	IP55	
Anti-corrosion	C4 (C5 optional)	
Operating altitude	≤4000m (Derating above 2000m)	
Installation	Ground mounting	
Standard	IEC62619, UN38.3, UL9540A, UL1973	

* All specifications are subject to change without notice.

400V Junction Cabinet

Product Advantages

- Non-Walk-In design with less footprint
- Easy installation and O&M
- Support installation against wall
- Maximum 6 Energy Storage Cabinets in Parallel

Model	PAC-750K-H1
Input side	
Rated operating voltage	400V AC, Three-phase four-wire
Rated current	6×180A (max 6 cabinets in parallel)
Maximum current	Max 1188A
Rated input power	6×125kW
System Parameters	
Operating ambient temperature	-30℃~50℃ (Derating above 45℃)
Storage ambient temperature	-30℃~60℃
Relative humidity	0~100% (No condensation)
Maximum operating altitude	≤2000m (Customized if above)
Ingress protection rating	IP55
Anti-corrosion	C4 (C5 optional)
Wire inlet & outlet	Bottom inlet, bottom outlet
Dimension(W×D×H)	700×700×2182mm
Weight	＜300kg
Installation	Ground mounting
Standard	IEC/EN 61439-2

* All specifications are subject to change without notice.

Backup Cabinet

Product Advantages

- Grid-on/off auto-switch
- Pre-assembled design, less on-site renovation
- Easy installation and O&M

Model	PAC-750K-W1
Rated voltage	400V AC
Rated current	2160A
Rated frequency	50Hz/60Hz
Grid-On/Off	Auto-switch
Ingress protection rating	Enclosure IP4X, Internal cubicle IP2X (indoor installation)
Operating ambient temperature	-15℃~40℃ (indoor installation)
Storage ambient temperature	-30℃~60℃
Dimension(W×D×H)	1300x800×2200mm
Maximum operating altitude	≤4000 (Standard ≤ 2000m, customized above 2000m)
Communication interface	RS485
Standard	IEC/EN 61439-2

* All specifications are subject to change without notice.

EBI 125K-R

Product Advantages

High Yield

- Advanced three-level technology, max. efficiency 98.3%
- Effective forced air cooling, no derating up to 45˚C
- Rack level management, more battery usable energy

Flexible & Reliable

- Bidirectional power conversion system with full four-quadrant operation
- Modular design, easy for design & maintenance
- IP66 protection degree, suitable for outdoor installation

Grid Support

- Compliant with CE, IEC 62477 and grid regulations
- L/HVRT, Fast active/reactive power response

Model	EBI 125K-R
DC Side	
Maximum DC Voltage	1200 V
DC Voltage Working Range	600~1200 V
DC Voltage Full-power Working Rage	650~1100 V
Maximum DC Current	220A
AC Side (Grid-on)	
Rated AC Power	125 kW
Maximum AC Active Power	138 kW
Maximum AC Apparent Power	138 kVA
Rated AC Current	180 A
Maximum AC Current	198 A
Rated Grid Voltage	400V 3W+PE
Grid Voltage Range	340~440V
Rated Grid Frequency	50/60 Hz
Grid Frequency Range	45~55Hz/55~65Hz
Power Factor	-1~1
Current Total Harmonic Distortion (@Rated Power)	<3%
System Parameters	
Working Temperature	-35℃~60℃, >45℃ derating
Relative Humidity	0~100%, no condensation
Noise level	<75 dB
SPD	DC: type II, AC: type II
Maximum Working Altitude	4000m, >2000m derating
Cooling method	Temperature controlled forced air cooling
Communication port	CAN, RS485, Ethernet
Degree of Protection	IP66
Mechanical Parameters	
Dimensions (W×H×D)	740×265×850mm (without terminals)
Weight	<93 kg

* All specifications are subject to change without notice.

EBI 125K-R-G2

Product Advantages

High Yield

- Advanced three-level topology, max. effciency 98.8%
- Smart air cooling design, no derating up to 50˚C
- BPU and BCU integrated to save system cost
- 3P4W output in off-grid mode, support single phase load w/o isolation transformer

Grid Support

- Support active and reactive power response with four-quadrant operation
- Power response time less than 30ms
- HVRT/LVRT to support the grid

Flexible & Reliable

- IP66 protection degree, suitable for outdoor installation
- With intelligent control algorithm, support parallel operation and flexible capacity

Model	EBI 125K-R-G2
DC Side	
Maximum DC voltage	950V
DC voltage working range	600~950V
DC voltage full-power working range	650~950 V
Maximum DC current	217A
BPU integration (W/ BPU)	BCU, DC load switch, DC relays, Hall sensors integrated
AC Side (Grid-tied)	
Rated AC active power	125kW
Maximum AC active power	138kW
Maximum AC apparent power	138kVA
Rated AC current	180A
Maximum AC current	198A
Rated grid voltage	400V, 3P+N
Grid voltage range	323~460V
Rated grid frequency	50/60 Hz
Grid frequency range	45~55Hz/55~65Hz
Power factor	-1~1, adjustable
Current THD	<1.5% @Rated Power
AC Side (Off-grid)	
Rated output power	125kVA
Maximum output power	138kVA
Rated output current	180A
Maximum output current	198A
Rated output voltage	230/400V, 3P+N
Rated output frequency	50/60Hz
Unbalanced load capability	100% unbalanced load
Power factor	0.8~1, leading or lagging
Overload capacity	120%,1min; 150%, 10s, 160%, 2s @35˚C
System Characteristics	
Working temperature	-35˚C ~ 60˚C, >50˚C derating
Relative humidity	0~100%, no condensation
Noise level	<68dB @1m, 25˚C , full-power
SPD	DC: type II, AC: type II
Maximum working altitude	4000m, >2000m derating
Cooling method	Smart forced air cooling
Communication port	CAN, RS485, Ethernet
Ingress protection	IP66
General Data	
Dimensions (W×H×D)	740×265×850 mm (without terminals and switch handle)
Weight	<98 kg

*** All specifications are subject to change without notice.**