

ESS-5M16LG-BD1

Utility BESS

Liquid-cooled ES container



Ultra-long lifespan

- Industry's first lamination short-blade battery cell, with over 10,000 cycles
- Fully upgrade of thermal management system, dual-sided liquid cooling reduces temperature difference by 50%, increasing system lifespan by 10%



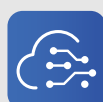
Ultimate safety

- Cells: "Short-blade + Lamination" process ensures intrinsic safety, passing extreme nail penetration tests
- System: Intelligent early warning + three-level fire protection, ensuring safety throughout the lifecycle



High efficiency and intelligence

- System energy efficiency is 1% higher than the industry average
- Energy density per unit area is 3% higher than the industry average, with 2.8% higher usable energy



Multi-scenario applications

- Supports single-rack management, enhancing energy utilization and reducing inter-rack current circulation
- The product supports peak shaving, grid-level frequency regulation, and renewable energy integration

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Model	ESS-5M16LG-BD1
Cell	
Battery Type	LFP
Cell Capacity	350Ah
Cycle Life	≥ 10,000 cycles @70% SOH
System	
Dimensions (W×H×D)	6058×3100×2438mm
Weight	43t
Cell Configuration	1P384S ×12
Energy Output(Max.)	5160kWh
Nominal Voltage	1228.80V
Charge/Discharge Rate	≤ 0.5P
Protection Level	IP55
Corrosion Resistance Level	C4/C5
Pollution Resistance Level	II
Operating Altitude	≤ 3000m (derated at 4000m)
Temperature Range	-30°C ~ +55°C
Humidity Range	0~95%, no condensation

*All specifications are subject to change without notice.

EBI 215K-R

PCS



High yield

- Advanced three-level topology, max. efficiency 99%
- 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 installation & maintenance
- IP66 protection degree, suitable for outdoor installation



Grid support

- Compliant with CE, IEC 62477-1 and grid regulations
- L/HVRT, Fast active/reactive power response

Model	EBI 215K-R
DC Side	
Maximum DC Voltage	1500V
DC Voltage Working Range	1000-1500V
DC Voltage Full-Power Working Range	1100-1500V
Maximum DC Current	220A
AC Side (Grid-on)	
Rated AC Power	215kW
Maximum AC Active Power	237kW
Maximum AC Apparent Power	237kVA
Rated AC Current	180A
Maximum AC Current	198A
Rated Grid Voltage	690V, 3W+PE
Grid Voltage Range	586.5-759V
Rated Grid Frequency	50/60Hz
Grid Frequency Range	45-55Hz/55-65Hz
Grid System	IT, ungrounded system
Power Factor	-1~1
THDi (@Rated Power)	< 3%
System Parameters	
Working Temperature	-35°C~ +60°C, > 45°C derating
Relative Humidity	0-100%, no condensation
Noise Level	< 75dB
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	< 96kg
Standard	IEC/EN 62477-1, IEC/EN 61000-6-2/-4, EN 50549-1/-2, VDE-AR-N 4105/4110/4120, C10/11, TOR Typ A/B/C/D G99 Type A, PSE/PTPIREE, GB/T 34120-2023

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EBI2150-2580K-DP

PCS distribution panel



High yield

- Easy for PCS modules integration, lower transportation, installation, and maintenance cost
- Smart air cooling design, no derating up to 45°C
- Rack level battery management, improve SOC balance between racks, higher battery usable capacity



Grid support

- Supports primary frequency control and inertia response
- HVRT/LVRT to support the grid
- Supports Modbus TCP and IEC 104 communication protocol and fast power response



Safe & Reliable

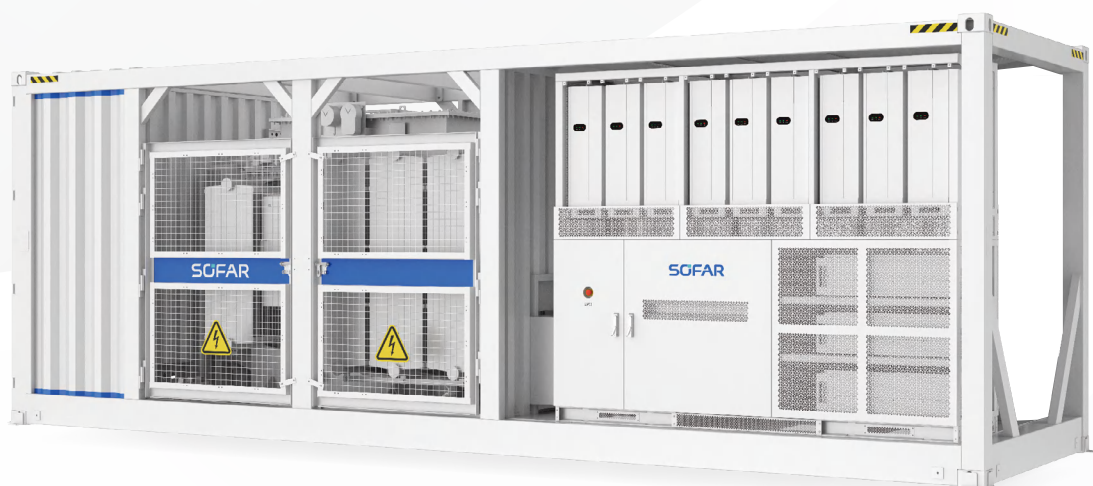
- IP66 for modules and IP55 for system with high environmental adaptability
- Synergy with BMS and EMS to support multiple protection

Model	EBI2580K-DP	EBI2150K-DP
DC Side		
Max. DC Voltage	1500V	
DC Voltage Working Range	1000-1500V	
DC Voltage Full-Power Working Range	1100-1500V	
Max. DC Current	12×220A	10×220A
Number of DC Inputs	12	10
AC Side		
Nominal AC Power	2580kVA @45℃	2150kVA @45℃
Max. AC Power	2838kVA @35℃	2365kVA @35℃
Nominal AC Current	2160A @45℃	1800A @45℃
Max. AC Current	2376A @35℃	1980A @35℃
Nominal Grid Voltage	690V, 3W+PE	
Grid Voltage Range	586.5-759V	
Nominal Grid Frequency	50Hz/60Hz	
Grid Frequency Range	45-55Hz/55-65Hz	
Gird System	IT, ungrounded system	
Power Factor	-1~1	
Number of AC Branches	12	10
System Characteristics		
Working Temperature	-35℃ ~ +60℃, 45℃ derating	
Relative Humidity	0-100%, no condensation	
Max. Working Altitude	2000m (4000m optional)	
Cooling Method	Smart controlled air cooling	
Communication Ports	CAN, RS485, Ethernet	
Communication Protocol	CAN2.0, Modbus RTU, Modbus TCP / IEC 104	
Ingress Protection	IP55	
Anti-corrosion Grade	C4-M (C5-M optional)	
Surge Protection	Type II	
Protection Function	IMD, OTP, OCP	
Auxiliary Power Supply	230Vac/1kW peak/250W steady (grid) 230Vac/1.1kW peak/30W steady (UPS)	
PCS Expansion	8-12 pcs	
Mechanical Parameters		
Dimensions (W×H×D)	2870×2400×860mm	
Weight	< 850kg	
Standard	IEC/EN 61439-1/-2	

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SP2680K-MV

String PCS MV station



High yield

- Higher integration with PCS, MV transformer and switchgear together, lower transportation, installation, and maintenance cost
- Max. efficiency 98.9% of PCS, lower power loss
- Smart air cooling design, no derating up to 45°C
- Rack level battery management, improve SOC balance between racks, higher battery usable capacity



Grid support

- Supports primary frequency control and inertia response
- HVRT/LVRT to support the grid
- Supports Modbus TCP and IEC 104 communication protocol and fast power response



Safe & Reliable

- IP66 for modules and IP55 for system with high environmental adaptability
- Synergy with BMS and EMS to support multiple protection

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Model	SP2680K-MV
DC Side	
Max. DC Voltage	1500V
DC Voltage Working Range	1000-1500V
Max. DC Current	12×220A
Number of DC Inputs	12
AC Side	
PCS Nominal AC Output Power	2580kVA @45°C
PCS Max. AC Output Power	2838kVA @35°C
PCS Nominal AC Voltage	690V, 3W+PE
PCS AC Voltage Range	586.5-759V
PCS Nominal AC Current	12×180A @45°C
PCS Max. AC Current	12×198A @35°C
Nominal Grid Frequency	50Hz
Power Factor	-1~1, adjustable
Transformer	
Transformer Nominal Power	2680kVA @45°C
Transformer Max. Power	2938kVA @35°C
LV/MV Voltage	0.69kV/33kV (10kV-35kV Optional)
Transformer Cooling Type	ONAN
Transformer Vector Group	Dy11
Oil Type	Mineral oil (Degradable oil optional)
Auxiliary Transformer Power	100kVA
Protection Function	
DC Input Protection	Load Switch + Fuse
AC Output Protection	Circuit Breaker
Surge Protection	Type II
Ground Fault Monitoring	Yes
Insulation Resistance Detection	Yes
Transformer Protection	Oil OTP, Oil level protection, pressure relief
System Characteristics	
PCS Max. Efficiency	98.90%
Working Temperature	-35°C ~ +60°C, > 45°C derating
Relative Humidity	0-100%, no condensation
Max. Working Altitude	2000m (4000m optional)
Communication Ports	CAN, RS485, Ethernet
Cooling Method	Smart controlled air cooling
Communication Protocol	CAN2.0, Modbus RTU, Modbus TCP / IEC 104
Ingress Protection	IP55
Anti-corrosion Grade	C4-M (C5-M optional)
Surge Protection Level	Type II
Protection Function	IMD, OTP, OCP
Mechanical Parameters	
Dimensions (W×H×D)	6058×2896×2438mm
Weight	< 16t

*All specifications are subject to change without notice.

SP5260K-MV

String PCS MV station



High yield

- Higher integration with PCS, MV transformer and switchgear together, lower transportation, installation, and maintenance cost
- Max. efficiency 98.9% of PCS, lower power loss
- Smart air cooling design, no derating up to 45°C
- Rack level battery management, improve SOC balance between racks, higher battery usable capacity



Grid support

- Supports primary frequency control and inertia response
- HVRT/LVRT to support the grid
- Supports Modbus TCP and IEC 104 communication protocol and fast power response



Safe & Reliable

- IP66 for modules and IP55 for system with high environmental adaptability
- Synergy with BMS and EMS to support multiple protection

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Model	SP5260K-MV
DC Side	
Max. DC Voltage	1500V
DC Voltage Working Range	1000-1500V
Max. DC Current	24×220A
Number of DC Inputs	24
AC Side	
PCS Nominal AC Output Power	5160kVA @45°C
PCS Max. AC Output Power	5676kVA @35°C
PCS Nominal AC Voltage	690V, 3W+PE
PCS AC Voltage Range	586.5-759V
PCS Nominal AC Current	24×180A @45°C
PCS Max. AC Current	24×198A @35°C
Nominal Grid Frequency	50Hz
Power Factor	-1~1, adjustable
Transformer	
Transformer Nominal Power	5260kVA @45°C
Transformer Max. Power	5776kVA @35°C
LV/MV Voltage	0.69kV/33kV (10kV-35kV Optional)
Transformer Cooling Type	ONAN
Transformer Vector Group	Dy11
Oil Type	Mineral oil (Degradable oil optional)
Auxiliary Transformer Power	100kVA
Protection Function	
DC Input Protection	Load Switch + Fuse
AC Output Protection	Circuit Breaker
Surge Protection	Type II
Ground Fault Monitoring	Yes
Insulation Resistance Detection	Yes
Transformer Protection	Oil OTP, Oil level protection, pressure relief
System Characteristics	
PCS Max. Efficiency	98.90%
Working Temperature	-35°C ~ +60°C, > 45°C derating
Relative Humidity	0-100%, no condensation
Max. Working Altitude	2000m (4000m optional)
Communication Ports	CAN, RS485, Ethernet
Cooling Method	Smart controlled air cooling
Communication Protocol	CAN2.0, Modbus RTU, Modbus TCP / IEC 104
Ingress Protection	IP55
Anti-corrosion Grade	C4-M (C5-M optional)
Surge Protection Level	Type II
Protection Function	IMD, OTP, OCP
Mechanical Parameters	
Dimensions (W×H×D)	8200×2896×2438mm
Weight	< 25t

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