

Gotion EDGE

ESC-R100-211-CE



>>> Advantages of Products



Comprehensive Protection Real-time Monitoring

- EMS real-time monitoring and fault logging
- BMS real-time detection to protect the safe operation of the battery system



Modular Design

- Scalable design, customized design
- High space utilization



Unattended, Intelligent Operation and Maintenance (O&M)

- Access to energy storage intelligent O&M system
- Intelligent statistical analysis
- Cloud-side collaboration
- reporting and remote control

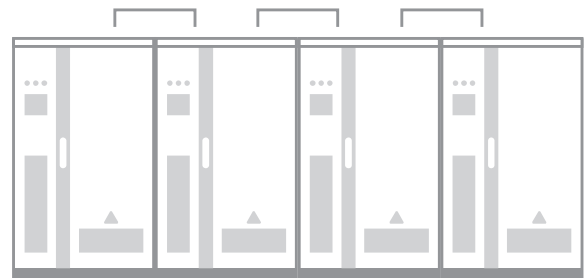


Safe, Environmentally Friendly and Highly Adaptable

- Suitable for PV & Diesel microgrids
- Automatic switching between on-grid and off-grid operation

On-grid Max. parallel number: 20

Off-grid Max. parallel number: 4



* Support 4 Sets for Parallel Connection

The industrial and commercial storage products feature a modular system design, available in economic and standard models. The economic models are compact with high energy density, while the standard models offer excellent energy and power adaptability with flexible configuration options. These products facilitate peak shifting, staggered power consumption, and help alleviate grid pressure.

Model	ESC-R100-211-CE	ESD832-05P522-G
Electrical Parameters		
Cell Type	LFP-300Ah	LFP-314Ah
Cell Cycle Life	>8000	>12000
Rated Voltage (Vdc) of Single Cell	3.2	3.2
Pack Configuration	1P44S	1P52S
Rack Configuration	1P220S	1P260S
System Configuration	1P220S	2P260S
System Nominal Energy (kWh)	211	522
System Rated Voltage (Vdc)	704	832
System Voltage Range (Vdc)	600-803	728-936
System Output Voltage (Vac)	400@50Hz/60Hz	480@60Hz
System Rated Power (kW)	100	250
Charge / Discharge Rate	0.5P@25° C	0.5P@25° C
Components		
High Voltage Box	Integrated in Control Box	Integrated
Confluence Cabinet	Integrated in Control Box	/
Monitoring System (HMI)	Integrated	
Fire Suppression System	Temperature/Smoke Detection +Gas Concentration Detection +Explosion Relief Panel +Aerosol	Temperature/Smoke Detection +Explosion Relief Panel +Aerosol +Water Sprinkler System
Thermal Management System	Integrated Liquid Cooler(5kW Cooling Capacity) + Air-cooling for PCS	Integrated Liquid Cooler + Liquid Cooler for PCS
Conditions		
Storage Temperature (°C)	-30~60	
Working Ambient Temperature (°C)	-20~45 (>45 Derating)	
Working Relative Humidity (%)	0~95 (Non-condensing)	
Working Altitude (m)	≤ 2000 (>2000 Derating)	<3000 (≥ 3000 Derating)
Other Parameters		
Max. Parallel Sets	20(Grid-connected), 4(Off-grid)	5(Grid-connected), 2(Off-grid)
Ingress Protection	IP55	
Communication Interface	4G*, RS-485, Ethernet	CAN, RS485, Ethernet
Communication Protocol	Modbus/MQTT	
Dimensions (W×D×H) mm	1340×1300×2300	2370×1500×2250
Weight (t)	≈ 2.6	≈ 5
Standards & Certification		
UL	/	UL1973, UL9540A, UL9540
IEC	IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 63056 IEC 62619, IEC 60730-1	TBD
Transportation	UN38.3, UN3480	TBD

* Support for Extended Integration; 05P522 product is on-going

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