Gotion EDGE
ESC-R100-211-CE

Gotion



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

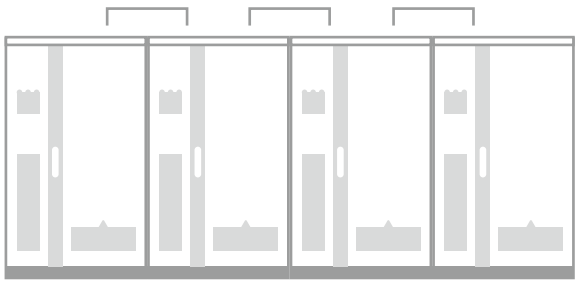
Unattended, Intelligent Operation and Maintenance(O&M)

- 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
Electrical Parameters	
Cell Type	LFP-300Ah
Cell cycle life	>8000
Rated Voltage (Vdc) of Single Cell	3.2
Pack Configuration	1P44S
Rack Configuration	1P220S
System Configuration	1P220S
System Nominal Energy (kWh)	211
System Rated Voltage (Vdc)	704
System Voltage Range (Vdc)	600-803
System Output Voltage (Vac)	400@50Hz/60Hz
System Rated Power (kW)	100
Charge / Discharge Rate	0.5P@25° C
Components	
High Voltage Box	Integrated in Control Box
Confluence Cabinet	Integrated in Control Box
Monitoring System (HMI)	Integrated
Fire Suppression System	Temperature/Smoke detection +gas concentration detection +explosion relief panel +Aerosol
Thermal Management System	Integrated Liquid Cooler(5kW cooling capacity) + Air-cooling 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)
Other Parameters	
Max. Parallel Sets	20(grid-connected), 4(off-grid)
Ingress Protection	IP55
Communication Interface	4G*, RS-485, Ethernet(reserve)
Communication Protocol	Modbus RTU/MQTT
Dimensions (L×W×H) mm	1340×1300×2260
Weight (t)	≈ 2.6
Standards & Certification	
UL	UL9540A (pack)
IEC	IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC 63056 IEC 62619, IEC 60730-1
Transportation	UN38.3, UN3480

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