



SERIES DATASHEET

ESC-R100-211-CE

Industrial and commercial energy storage All-in-one machine series products include:

ESC-R100-211-CE, the series adopts all-in-one design, high integration, high energy density. It is widely used in many scenarios such as capacity expansion, industrial and commercial enterprises, data centers, park energy storage, commercial buildings, large industries, charging stations and so on.



SAFE AND RELIABLE

- Long cycle energy storage battery, battery pack IP67
- Cabinet unit design, IP55, fire resistant 1.5h
- Multi-level electrical control, support singlepack level fire protection



INTELLIGENT AND EFFICIENT

- Self-developed EMS, real-time detection and intelligent management
- Liquid cooled battery pack design, intelligent temperature control technology
- Fast response and seamless off-grid switching



FLEXIBLE DEPLOYMENT

- Modular, highly integrated design, small footprint
- Plug and play, support multi-machine parallel, easy to expand
- Can fork can lift, transfer flexible



REMOTE OPERATION & MAINTENANCE

- Cloud-side coordination, remote monitoring and early warning
- Remote fault analysis and efficient processing
- Supports remote software upgrade to reduce O&M

Model ESC-R100-211-CE

Cell Type	LFP-300Ah
Grouping Mode	1P44S*5
Charge/Discharge Rate	0.5P@25°C
Nominal Energy (kWh)	211
Voltage Range (V)	600~803

AC Side

AC Voltage (V)	400 (-20%~20%)
Rated Power (kW)	100
PCS Maximum Efficiency (%)	98
Total Harmonic Distortion Ratio (%)	<3

System Parameters

Work Temp Range (°C)	-30~50 (derating required at above 45°C)
Work Humidity Range (%)	5~95
Cooling Mode	Liquid-cooled
Altitude (m)	≤2000 (>2000 Derated Use)
Maximum System Efficiency (%)	90
System Cycle Life	>8000,0.5c@25°C,90%DOD
Fire Suppression System	Aerosol FSS
Ingress Protection	IP55
Communication Port	4G,RS485,Ethernet
Communication Protocol	Modbus/MQTT
Certification	GB/T36276,IEC62619,IEC62477, IEC61000,UN38.3
Dimension (W*D*H)mm	1340*1300*2300
Weight (T)	2.6

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