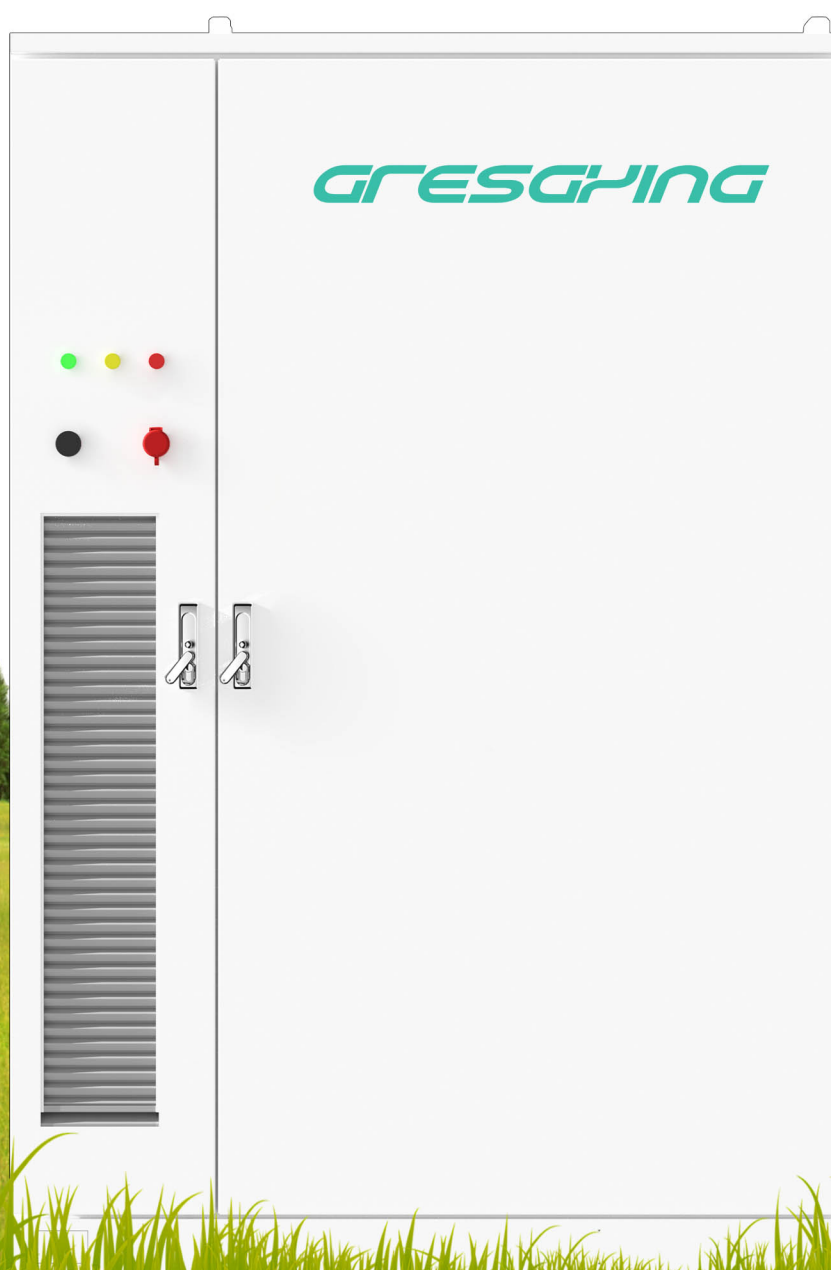


# COMMERCIAL ESS

215kWh



# 215kWh COMMERCIAL ESS

Power Your Peak-Safe and Smart



## Efficient Energy Buffering

- 215kWh capacity with 100kW AC output supports peak shaving
- LEP batteries (LFP) for safe, long-lasting storage
- Excellent heat dissipation + IP54 outdoor cabinet



## Smart Grid Integration

- EMS controller (optional) supports intelligent scheduling & auto-balancing
- Modbus TCP interface and seamless integration with Gresgying EMS and DLM



## Deployment Ready

- 3000m working altitude, -30°C to 50°C operation
- Smart air cooling (3.2kW) for optimized temperature control
- <3% THDi and 0.99 PF for power quality compliance
- Parallel configuration support for capacity doubling up to MWh level
- Adaptable cabinet for PV/grid/off-grid hybrid compatibility

# 215kWh COMMERCIAL ESS



Multiple redundancy protection



IP54 outdoor installation



All-in-one integration



Save up to 20% floor space compared with traditional ESS systems



Cell level monitor system

# EMS CONTROLLER



Streamlined guidance for immediate, tutorial-free application use



Effortless network configuration with a single click, drastically reducing setup time



An all-encompassing app catering to various user roles and preferences with support for multiple third-party logins and service expansion



Enabling both remote and local management, ensuring seamless operation across all scenarios



Integrated design, small size, easy installation



Standardized design of software and hardware



Realize energy flow within the microgrid

# TECHNICAL SPECIFICATIONS

<b>Model</b>	
Model number	CESS-100K215AL
<b>DC Side</b>	
Rated capacity	215kWh
System rated voltage	768Vdc
System voltage range	672V~864V
Battery type	LFP (LiFePO4)
Battery module series-parallel connection mode	1P*16S*15S
Max charge & discharge current	140A
<b>AC Side</b>	
Rated AC power	100kW
Rated alternating current	150A
Rated grid voltage	400V 3P4W
Rated grid frequency	50/60Hz
Current total harmonic distortion rate THDI (%)	<3% (rated)
Power factor	0.99
<b>Conventional Parameter</b>	
Protection level	IP54
Operating temperature	-30~50°C
Relative humidity	0~95% (No Condensation)
Display	8.4-inch all-in-one touch controller
Noise	≤78dB
Cooling mode	Smart air cooling (rated cooling capacity 3.2kW)
Max working altitude	3000m (derating above 2000m)
BMS communication	Ethernet/RS485/CAN
EMS communication	Ethernet/RS485/CAN
Dimension (WxDxH)	1500mm×1490mm×2348mm
Weight	2500kg

**GRESGYING**

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🌐 <https://www.gresgying.global>



# TECHNICAL SPECIFICATIONS

<b>Model</b>	
Model number	LGMCK-MGC
<b>Power</b>	
Rated voltage	220VAC
Power	≤100W
Grid type	L+N+PE
<b>Communication Interface</b>	
RS485 interface	4
CAN interface	2
LAN interface	16
4G interface	1
DI interface	6
DO interface	4
<b>Feature</b>	
HMI	LED indicator + cloud
UPS duration	≥2 hours
Operating temperature	-20~60°C
Operating humidity	5%~95% RH (No Condensation)
Protection	IP54
Max working altitude	≤2000m (derating above 2000m)
Dimension (WxDxH)	380mm×165mm×485mm
Weight	16kg

**GRESGYING**

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