

Lenercom Commercial ESS



LC-C1-100-215 is a compact and Plug-and-Play battery energy storage system with easy to be transported, installed and maintained. It is an All-in-One system comprises of PCS, batteries, BMS, EMS, MPPT, automatic fire control system and temperature control system. High-performance EV grade LiFePo4 batteries ensures high safety and reliability with four layers of safety protection with intelligent BMS design. The synergy of the system components and unique design enable to achieve effective charging and discharging for various applications with high energy density and maximized battery life time to provide the lower LCOS. It supports AC Coupling and DC coupling applications with its ease in integration and suitable for all ranges of C&I energy storage projects.



**Peak shaving and valley filling,
peak and valley arbitrage**



**Grid ancillary
services**



**Electricity cost
savings**



**Integrated utilization
of renewable energy**



Product Parameters

Model	LC-CI-100-215
Battery Parameters	
Battery cell type & capacity	LiFePO ₄ - 280Ah
Battery storage capacity range	215kWh
AC On-Grid Side Parameters	
Grid connection type	3P4W+PE
Charging / discharging power	100kW
Rated grid voltage	AC400V
Grid voltage range	±15%
Frequency range	45Hz~55Hz
Rated AC output current	144A
Power factor	0.8 (Leading) ~ 0.8 (Lagging)
Harmonics	≤5% (rated power)
General Parameters	
Dimensions (W*H*D)	1900mm*2100mm*1330mm
Maximum weight	About 2500kg
Degree of protection	IP55 (Battery Cabinet) IP34 (Electrical Cabinet)
Cooling method type	Battery Cabinet (air conditioner) & Electrical Cabinet (forced air cooling)
Fire fighting system	FM200 automatic fire extinguishing
Altitude**	< 2000m, > 2000m The derating is reduced by 5% for every 100m rise
Operating temperature*	-20°C ~ 50°C
Noise level	≤75dB
Communication interface	RS485, Ethernet
Communication protocol	Modbus RTU、Modbus TCP/IP
PV Side Parameters (Optional)	
Maximum PV input power	25kW/50kW/100kW
MPPT voltage range	200V-850V
Maximum input current	100A/200A/400A

* The system will be derated when the ambient temperature exceeds 45°C.

** The system will be derated when the altitude is between 2000 and 3000m.

Note: Product specifications are subject to change without prior notice and are subject to periodic revision by the company.

Certifications:

System: GB/T 36558、CE (IEC 62477、IEC62619、IEC61000)、UN3480、UKCA、MSDS;

Battery Cell: GB/T 36276、IEC 62619、UL1973、UL1642、UL9540A;

Battery Pack: GB/T 36276、IEC 62619、UN38.3;

PCS: GB/T 34120、IEC62477、G99、EN50549-1、EN50549-2、VDE4105、VDE4110

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