

L233C

**Battery Energy
Storage Systems**

Energise the Revolution

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L233C: Battery Energy Storage Systems

eLumina L233C, a liquid cooled all-in-one commercial and industrial energy storage system (ESS), is integrated with an energy storage converter (PCS), LFP battery, battery management system (BMS), energy management system (EMS), thermal management, power distribution, and fire protection. The all-in-one design facilitates easy installation, operation, and maintenance. The system's safety design ensures improved battery performance and a longer service life. Multiple sets of cabinets can be directly connected in parallel for easy energy storage system expansion.



Product Highlights:

- Easy Installation: Highly integrated ESS for easy transportation and O&M; The integrated design allows quick site installation
- Advanced Cooling: With an intelligent liquid cooling system, the temperature deviation of battery cells throughout the system is within 3°C; battery cell lifetime increases by 20%
- Safety: The system features a four-level management structure that provides accurate protection against short circuits, over-current, over-voltage, under-voltage, and over-temperature
- CEC listed

L233C Data Sheet

Battery	
Nominal Capacity	233 kWh
Usable Capacity (95% DoD)	208 kWh
Battery Technology	LiFePO4
Charge/Discharge Rate	0.5C
Battery Pack Structure	1P260S
Cooling	Liquid Cooling
BMS	Integrated
Rated DC Voltage	832 Vdc
Battery Life Cycle	Battery modules 8000 Cycles, 0.5c, 10 years, EOL 70%@25°C
Inverter	
Operating Voltage Range	728-936 Vdc
Max AC Power	50KW, 100KW
Rated AC Power	50KW, 100kW
Max AC Current	172A, 144A
AC Line Voltage	400 V, 3W+N+PE
AC Line Frequency	50 Hz
General Data	
Over-Voltage Category	II for DC side, III for AC side
Method of Active Anti-islanding	Frequency shift
Humidity and Altitude	0 ~ 100%, 2000m
Communication Protocols	Modbus, TCP/IP
Dimensions	
Dimensions (L*W*H)	1400 * 1350 * 2100 mm
Weight	~ 2700 kg
Safety/Standards	
Protection	IP55
Safety Features	Smoke Detection, Temperature Detection, Aerosol Fire Extinguisher, Emergency Shutdown Button, Warning and Fault Indication, Warning and Fault Alert on Online Monitoring Platform
Certification	IEC 62619, IEC 63056, EN 62477-1, IEC 62933-5-2, IEC 60068-2-1/-2/-14/-30, IEC 62109-1/-2, IEC 61000-6-2/-4 UN 38.3 AS 4777.2 UL9540A CEC
Warranty	5 years (extended warranty available)