

EMS Local Controller

WL-LC-200

Application scenarios

As the local controller for multiple parallel energy storage units, the EMS local controller is responsible for connecting southbound energy storage devices in each unit, collecting and uploading device data, and executing charging/discharging and protection strategies issued by the upper-level coordinating controller. The EMS local controller can aggregate upper-level EMS commands and lower-level device data in real time, dynamically allocate power through multi-objective optimization algorithms, and support rapid control functions such as primary frequency regulation and demand response, ensuring efficient and stable operation of the power plant and extending the lifespan of critical equipment.

In multi-cabinet master-slave mode, the EMS local controller is used as a slave unit within the energy cabinet.

Product Introduction

The Lnxall IoT WL-LC-200 series EMS local controller, combined with PCS/BMS, forms an integrated solution for the 3S energy storage system.The WL-LC-200 series EMS local controller features a single industrial-grade CPU and can be connected to manage energy storage and microgrid power plants with various interfaces. It is equipped with and can be connected to the WL-SMC station control system of Lnxall IoT or other third-party energy management , equipment management and system maintenance platforms.



EMS Local Controller
WL-LC-200

Product Name	EMS Local Controller	WL-LC-200
Wireless	4G (Optional)	Supports full network 4G Cat 1
Power supply	DC 24V/1A or DC 12V/2A	Reference power supply range DC 12V ~ 36V
Operating power consumption	Average 10W	Full load operation < 15W
Hardware parameters	ARM industrial-grade CPU	4 cores 1.8 GHz
	8 GB eMMC storage	Onboard 8GB storage
	2GB LPDDR4	Onboard 2GB memory
	256GB harddisk	Onboard 256GB harddisk
	Shelf size	25.7 × 18.5 × 4.5cm (L×W×H)
	Main unit size	21 × 16.5 × 4.5cm (L×W×H)
	Approximate weight	1.4Kg
Communication interface	Ethernet	2-way WAN, 4-way LAN
	Industrial serial port	8-way RS485
	CAN	2
	DI	16
	DO	8
Other	Operating temperature	-20℃ ~ 60℃
	Storage temperature	-40℃ ~ 85℃
	Operating humidity	≤ 95% RH (No condensation)
	Test certificate	TUV/CE、RoHS2.0