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C&I

Energy Storage System
All-In-One Solution

Next Generation Energy Storage For C&I Applications

Epoch-S100/215-W-WL is a smart, all-in-one energy storage solution designed to maximize efficiency and optimize energy management. Built for commercial, industrial, and off-grid applications, it offers a flexible and scalable approach to energy storage.

With advanced battery technology and intelligent control systems, it helps businesses reduce energy costs, improve power reliability, and integrate renewable energy sources with ease. Whether it is for peak shaving, energy arbitrage, or grid support, the Epoch-S100/215-W-WL delivers high performance, resilience, and long-term savings, ensuring a future-ready energy solution for any business.



Optimized Energy
Management



Flexible and Scalable



Advanced Battery
Technology



Seamless Integration
with Renewables

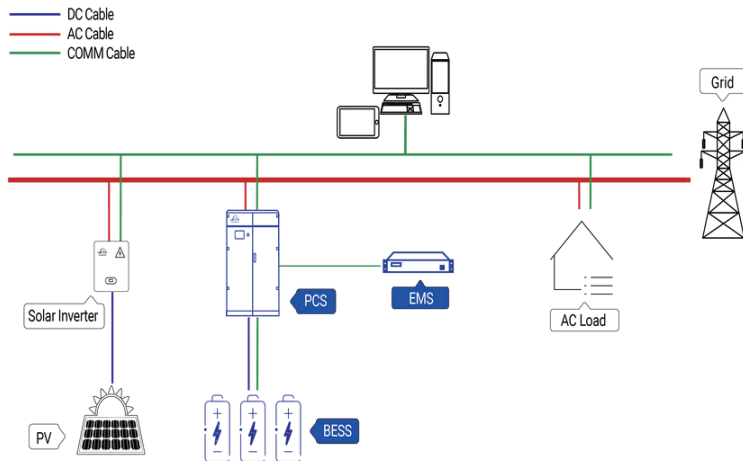
Why Choose Epoch?

The Epoch-S100/215-W-WL is an integrated outdoor battery energy storage cabinet engineered for reliable performance, ease of use and intelligent operation.

Key Features:

- ✓ **MPPT for PV (Optional)**
Efficient solar integration maximizing photovoltaic performance.
- ✓ **Outdoor Rated (IP55)**
Durable design capable of withstanding harsh weather conditions.
- ✓ **Parallel Operation**
Expandable capacity with seamless parallel system operation.
- ✓ **VF Mode Ready**
Suitable for reliable off-grid applications ensuring continuous energy availability.
- ✓ **Cloud Monitoring and Control**
Secure, locally-hosted cloud infrastructure ensuring compliance with local cybersecurity regulations.
- ✓ **Alarm Management**
Proactive detection and notification system ensuring operational reliability.

C&I Energy Storage System solution



Seamless Integration of Hardware & Software for Optimized Performance

The Epoch-S100/215-W-WL is designed for a wide range of applications, helping business reduce energy costs and enhance sustainability.

Renewable Self-Consumption

Enhance the utilization of renewable energy for increased savings.

Dynamic Peak Shaving

Automatically manage peak loads to minimize demand charges.

Capacity Boosting

Increase power availability and capacity without major infrastructure changes.

Price Arbitrage

Maximize financial benefits through intelligent control algorithm.

Offgrid Enhancement

Supplement diesel generation operation to decarbonize the system.

Cloud Monitoring

Our cloud-based EMS software offers real-time monitoring and in-depth analytics for battery energy storage systems (BESS), enabling efficient performance tracking and operational oversight. Advanced alarm management with customizable notifications ensures proactive fault detection and enhanced system reliability.



Product's Internal Components



Specifications

MODEL	EPOCH-S100/215-W-WL
Battery Parameters	
Battery cell type & capacity	LiFePO ₄ - 280Ah
Battery storage capacity range	215kWh
AC Side Parameters	
Grid connection type	3P4W
Charging / discharging power	100kW
Rated grid voltage	AC 400V
Grid voltage range	±15%
Frequency range	50 (±5) Hz
Rated AC output current	144A
Power factor	0.8 (Leading) ~ 0.8 (Lagging)
Harmonics	≤ 3% (at rated power)
General Parameters	
Dimensions (W x H x D)	1686mm x 2093mm x 1354mm
Maximum weight	2500 kg
Degree of protection	IP55 (Battery Cabinet) IP54 (Electrical Cabinet)
Cooling method type	Battery Cabinet (air-conditioner) & Electrical Cabinet (forced air cooling)
Fire fighting system	Combustible gas detection + Novec1230 + water fire protection
Anti-corrosion grade	C3
Relative humidity	0-95% (non-condensing)
Altitude **	< 2000m
Operating temperature *	-20°C ~ 50°C
Noise level	≤ 75dB
Communication interface	RS485, Ethernet
Communication protocol	Modbus RTU, Modbus TCP/IP
Product standard warranty	5 years, 6000 cycles 0.5C, 95%DOD, EOL:70% (can be extended up to 10 years)
PV Side Parameters (Optional)	
Maximum PV input power	30kW / 60kW / 90kW / 120kW
MPPT voltage range	200V - 850V
Number of MPPTs	1 / 1 / 2 / 2
Number of PV inputs	1 / 1 / 2 / 2
Maximum input current	100A / 200A / 300A / 400A

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

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

Certifications

Epoch System: CE (IEC61000, IEC62477), IEC62619

Battery Cell: IEC62619, UL1973, UL1642, UL9540A

Battery Pack: UN38.3

PCS: AS/NZS4777, CE (IEC61000, IEC62477), IEC62109

Note: Product specifications are subject to change without any prior notice as per regular modifications made by the company.