



EG4® WALLMOUNT 314AH INDOOR BATTERY

The EG4® WallMount 314Ah Indoor battery delivers dependable, high-efficiency storage for clean, protected spaces. Each unit uses advanced lithium iron phosphate cells and provides about 16kWh of energy. The form factor stays compact and familiar, sized to fit where earlier models fit, which keeps retrofits and system expansions straightforward. This model includes EG4's smart BMS with active balancing, network connectivity, and over the air firmware updates. Installers and homeowners get faster setup, stronger control, and long-term performance support through the EG4 battery monitoring app.

FASTER
COMMISSION
TIME

REMOTE
FIRMWARE
UPDATES

UNIVERSALLY
EXPANDABLE

LONGER CELL LIFE

Active balancing (2 – 3A) speeds up cell equalization for longer life and consistent performance across paralleled units.

AUTO CONFIGURATION

Eliminates manual DIP switch setup, detects and configures automatically for faster commissioning.

MULTIPLE COMPATIBLE INVERTERS

Smart BMS communicates with multiple inverter protocols for true plug-and-play operation.

CONFIGURABLE PORTS

NO/NC + 12V outputs for generator start, alarms, or custom triggers.

ENHANCED SAFETY

Internal fire arrestors, reinforced cell enclosures, and compliance with the latest UL and AHJ standards.



TECHNICAL SPECIFICATIONS

TYPE & MODEL #	
PARAMETER	SPECIFICATION
PRODUCT TYPE	Low Voltage LFP Battery
BATTERY TYPE	Lithium Iron Phosphate (LFP)
MODEL NUMBER	WM-48-314-IN-XX (XX is a number between 00 – 99)
ELECTRICAL CHARACTERISTICS	
NOMINAL ENERGY CAPACITY	16kWh
USABLE ENERGY [000%]	12.86kWh (80% recommended)
RECOMMENDED VOLTAGE RANGE	47.5 – 57.6 VDC
NOMINAL VOLTAGE	51.2 VDC
CAPACITY	314Ah
CHARGING VOLTAGE RANGE	56 – 57 VDC
DISCHARGING CUT-OFF VOLTAGE	47.5 VDC
MAX CONTINUOUS/RECOMMENDED CHARGE CURRENT	157A/157A
MAX CONTINUOUS/RECOMMENDED DISCHARGE CURRENT	200A/157A
CONTINUOUS CHARGE/DISCHARGE POWER	8/10.2 kW
RECOMMENDED CHARGING/DISCHARGING RATE	0.5C
SHORT CIRCUIT CURRENT	1700A, 15ms delay
PEAK POWER	12.8kW (3 sec)
ROUND-TRIP EFFICIENCY	95%
MAX PARALLEL UNITS	16
PROTECTION FEATURES	Over/Under Voltage, Over-Current, Short Circuit, High/Low Temp
BATTERY MANAGEMENT SYSTEM [BMS]	Integrated, Active Balancing
COMMUNICATION PROTOCOLS	RS485, CAN
BATTERY BREAKER	250A
ENVIRONMENTAL SPECIFICATIONS	
STORAGE TEMPERATURE RANGE*	-4 – 131°F (-20 – 55°C)
HUMIDITY RANGE	5% – 95% RH (non-condensing)
ALTITUDE	9843 ft. (<3000 m)
COOLING METHOD	Natural Convection
DIMENSIONS [H x W x D]	34.1 in. x 18.1 in. x 9.6 in. (865 mm x 460 mm x 245 mm)
OPERATING TEMPERATURE RANGE	Charge: 32 – 122°F (0 – 50°C) Discharging: -4 – 131°F (-20 – 55°C)

*Less than 3 months of storage. If longer than 3 months, recommended storage temperature will be 59°F – 86°F (15°C - 30°C). Refer to section 5.4 of the battery user manual for complete storage requirements.

MECHANICAL SPECIFICATIONS	
PARAMETER	SPECIFICATION
WEIGHT	293.2 lbs. (133 kg)
ENCLOSURE RATING	IP20
MOUNTING OPTIONS	Floor mount/wall attached
DISPLAY/INDICATORS	LED Status
CONNECTOR TYPE	Degson quick connector/screw terminal
CERTIFICATIONS & COMPLIANCE	
UL 1973	Yes
UL 9540	See https://eg4electronics.com/ for supported UL 9540 configurations.
UL 9540A	Cell, Module (Pending), Unit Level (Pending)
UN 38.3	Yes
WARRANTY & LIFECYCLE	
CYCLE LIFE [70% EOL CAPACITY]*	10000 cycles @ 0.5C, 25°C, 80% DOD
DESIGN LIFE**	10 years
WARRANTY	10 years or 10000 cycles
APPLICATION TYPE	Residential/Commercial/Off-grid/Backup

*EG4 recommends this value be set no lower than 20% to maintain the recommended 80% Depth of Discharge.

** $(51.2V \times 314Ah / 1000 \times 80\% \times 10000 / 1000) 90\% = 115.7 \text{ MWh}$ or
 $(12861 \text{ kWh} \times 10000 \text{ cycles} \times 90\% \text{ efficiency}) = 115.7 \text{ MWh}$

CHANGELOG

V1.0.1

- Added link to supported UL9540 configurations

V1.0

- Document published