

EG4[®] WALLMOUNT 314AH ALL WEATHER BATTERY



The EG4[®] WallMount 314Ah All Weather battery delivers reliable, high-capacity storage built for tough conditions. Each unit uses advanced lithium iron phosphate cells and provides 16kWh of energy. The unit uses a compact and familiar form factor, enabling system expansions and retrofits alike. 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.

AUTO CONFIGURATION

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

MULTIPLE COMPATIBLE INVERTERS

Smart BMS automatically detects and communicates with EG4 inverters 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 NEC standards.



TECHNICAL SPECIFICATIONS

TYPE & MODEL #		
PARAMETER		SPECIFICATION
PRODUCT TYPE		LFP Battery
BATTERY TYPE		Lithium Iron Phosphate (LiFePO4)
MODEL NUMBER		WM48314AWXX (XX is a number between 00 – 99)
ELECTRICAL CHARACTERISTICS		
NOMINAL ENERGY CAPACITY		16kWh
RECOMMENDED USABLE ENERGY (DOD%)		12.86kWh (80% recommended)
RECOMMENDED VOLTAGE RANGE		47.5 – 56 VDC
NOMINAL VOLTAGE		51.2 VDC
CAPACITY		314Ah
CHARGING VOLTAGE RANGE		56 – 57 VDC
DISCHARGING CUT-OFF VOLTAGE		44.8 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		32
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
BATTERY HEATER SPECIFICATIONS		
PARAMETER	SPEC	CONDITION
VOLTAGE	56V	-
POWER CONSUMPTION	448W	-
INTERNAL BATTERY TEMPERATURE	≤32°F (0°C)/≥37°F (3°C)	Heat On/Heat Off
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 × W × D)		34.6 in. × 21.7 in. × 9.3 in. (880 mm × 550 mm × 235 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 6.4 of the battery user manual for complete storage requirements.

MECHANICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
WEIGHT	309 lbs. (140 kg)
ENCLOSURE RATING	IP67
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	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
LIFETIME PRODUCTION**	122.2 MWh
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.

** $(51.2V \times 314Ah / 1000 \times 80\% \times 10000 / 1000) 95\% = 122.2 \text{ MWh}$ or
 $(12861 \text{ kWh} \times 10000 \text{ cycles} \times 95\% \text{ efficiency}) = 122.2 \text{ MWh}$

CHANGELOG

V1.0

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