

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.

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

CHANGELOG

V1.0

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