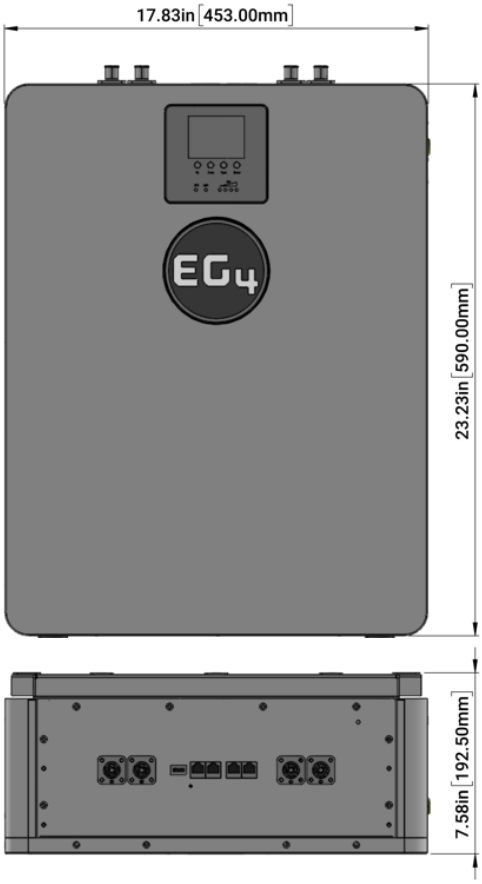

EG4® WALLMOUNT INDOOR 100Ah LITHIUM BATTERY

The WallMount Indoor 100Ah batteries are ideal for low-voltage residential indoor energy storage applications. The batteries use lithium iron phosphate cells with the highest safety performance and an intelligent Battery Management System (BMS) that can monitor and record the voltage of each cell along with the current, voltage, and temperature of the module in real-time. The BMS also contains a passive balance function and an advanced battery control method, both of which improve the performance of the battery pack.

BUILT-IN 100A BMS	INTEGRATED 150A BUSBAR	10 YEAR WARRANTY >6000 CYCLES @ 80% DOD

ON-BOARD LCD TOUCH SCREEN

Easy to see BMS monitoring, and selectable closed-loop communications with EG4®, Schneider, Sol-Ark, Victron, Growatt, Megarevo, Luxpower, and Deye inverters.

TRULY WALLMOUNTABLE BATTERY SOLUTION

This innovative battery is designed for true wall-mount ability, featuring a compact, sleek profile and secure mounting hardware. Easily attach it to any wall for convenient, space-saving power access without compromising on performance or reliability.

THE PERFECT PARTNER TO EG4® 6000XP OFF-GRID INVERTER

The optional conduit box (sold separately) mates up directly to the connection ports of the EG4® 6000XP off-grid inverter allowing a sleek and efficient installation, ensuring all the wires and connectors are protected.

VERSION 1.0 | INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE.
MODEL #: WM-48-100-IN-XX (XX is a number between 00-99)

TECHNICAL SPECIFICATIONS

MODULE OPERATING PARAMETERS		
PARAMETER	**BMS**	**RECOMMENDED SETTING**
TOTAL ENERGY CAPACITY	5.12kWh	–
VOLTAGE	51.2V	–
CAPACITY	100Ah	–
CHARGING VOLTAGE (BULK/ABSORB)	56.0V (±0.2V)	56.6V (±0.2V) (open loop communications)
SOC CUTOFF	-	*20%
CHARGING CURRENT	100A (Max. continuous)	50A
DISCHARGING CURRENT	100A (Max. continuous)	50A

BMS PARAMETERS			
CHARGE	**SPEC**	**DELAY**	**RECOVERY**
CELL VOLTAGE PROTECTION	3.8V	1 sec	3.45V
MODULE VOLTAGE PROTECTION	60.0V	1 sec	55.2V
OVER-CHARGING CURRENT PROTECTION 1	>102A	20 sec	–
OVER-CHARGING CURRENT PROTECTION 2	≥120A	3 sec	–
TEMPERATURE PROTECTION	<23°F or >158°F <-5°C or >70°C	1 sec	>32°F or <140°F >0°C or <60°C
DISCHARGE	**SPEC**	**DELAY**	**RECOVERY**
CELL VOLTAGE PROTECTION	2.3V	1 sec	3.1V
MODULE VOLTAGE PROTECTION	44.8V	1 sec	48V
OVER-DISCHARGING CURRENT PROTECTION 1	>102A	30 sec	60 sec
OVER-DISCHARGING CURRENT PROTECTION 2	>150A	3 sec	60 sec
SHORT CIRCUIT	>250A	<0.1 mS	–
TEMPERATURE PROTECTION	<-4°F or >167°F <-20°C or >75°C	1 sec	>14°F or <149°F >-10°C or <65°C

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

GENERAL SPECIFICATIONS			
PARAMETER	**SPEC**	**TYPE**	**CONDITION**
PCB TEMP PROTECTION	>221°F (>105°C)	Delay: 1 sec	@ <176°F (<80°C)
CELL BALANCE	120mA	Passive Balance	Cell Voltage Difference >40mV
TEMPERATURE ACCURACY	3%	Cycle Measurement	Measuring Range -40°F – 212°F (-40°C – 100°C)
VOLTAGE ACCURACY	0.5%	Cycle Measurement	For Cells & Module
CURRENT ACCURACY	3%	Cycle Measurement	Measuring Range: ±200A
SOC ACCURACY	5%	–	Integral Calculation
POWER CONSUMPTION (SLEEP & OFF MODE)	<300uA	–	Storage/Transport/ Standby
POWER CONSUMPTION (OPERATING)	<14mA	–	Charging/Discharging
COMMUNICATION PORTS	RS485/CAN	–	Configurable
DIMENSIONS (H × W × D)	23.2 in. × 17.8 in. × 7.6 in. (590 mm × 453 mm × 193 mm)		
WEIGHT	108 lbs. (49 kg)		
DESIGN LIFE	>15 Years*		
CYCLE LIFE	>6000 cycles at 0.5°C, 80% DOD		
ENVIRONMENTAL PARAMETERS			
CHARGING RANGE	32°F – 122°F (0°C – 50°C)		
DISCHARGING RANGE	-4°F – 131°F (-20°C – 55°C)		
STORAGE RANGE	**32°F – 113°F (0°C – 45°C)		
INGRESS PROTECTION	IP20		
STANDARDS AND CERTIFICATIONS			
UL1973, UL9540A			

**(51.2V×100Ah/1000×80%×6000/1000)90%=22.1 MWh or (4096 kWh×6000 cycles×90% efficiency) = 22.1 MWh*

***Less than 3 months of storage. If longer than 3 months recommended storage temperature will be 59°F – 86°F (15°C – 30°C).*

CHANGELOG

v1.0

- Published document