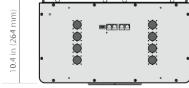


EVian-EG4® Wallmount INDOOR 280AH LITHIUM BATTERY

The *WallMount Indoor 280Ah* batteries are ideal for lowvoltage 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 200 A BMS
- INTEFRATED 600A BUSBARS
- 82.6MWH LIFETIME PRODUCTION

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.

DUAL ON-BOARD FIRE ARRESTORS

Offer fail-safe protection against thermal runaway

INTEGRATED SELF-HEATING FEATURE

Internal heating keeps cells operating during cold temperatures

INTEGRATED BUSBARS

The battery design comes manufactured with 600A internal busbars with multiple terminals (4 positive & 4 negative) eliminating the need for external busbars when paralleling batteries and/or multiple inverters.

INNOVATIVE EMERGENCY STOP FUNCTION

The optional ESS disconnect can shut down all batteries and inverters (if equipped with rapid shut down capability) with the press of a button.

THE PERFECT PARTNER TO EG4 INVERTERS

The optional conduit box mates up directly to the connection ports of EG4 inverters allowing a sleek and efficient installation. For other Inverters or stand-alone battery installation, the conduit plugs should be installed.





EVian-EG4® Wallmount INDOOR 280AH LITHIUM BATTERY

TECHNICAL SPECIFICATIONS

| MODULE OPERATING PARAMET | ERS | | |
|--------------------------------|------------------------------------|-------------------|--|
| PARAMETER | BI | MS | RECOMMENDED SETTING |
| TOTAL ENERGY CAPACITY | 14.3kWh @25 | 5C, 100% SOC | - |
| VOLTAGE | 51.2V | | - |
| CAPACITY | 280Ah | | - |
| CHARGING VOLTAGE (BULK/ABSORB) | 56.0V (+/-0.8V) | | 56.2V (+/-0.2V) |
| FLOAT | - | | 54V (+/-0.2V) |
| SOC CUTOFF | - | | 20%* |
| CHARGING CURRENT | 200A (Max. continuous) | | 60A-160A |
| DISCHARGING CURRENT | 200A (Max. continuous) | | 160A |
| DISCHARGE RATE | 10.24kW (Max. continuous) | | - |
| 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 1 | >205A | 10 sec | - |
| OVER CHARGING CURRENT 2 | >225A | 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-CHARGING CURRENT 1 | >205A | 10 sec | 60 sec |
| OVER-CHARGING CURRENT 2 | >300A | 3 sec | 60 sec |
| SHORT CIRCUIT | >600A | <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 |
| PCB TEMP PROTECTION | >230°F (>110°C) | 1 sec | @ <176°F (<80°C) |
| GENERAL SPECIFICATIONS | | | |
| PARAMETER | SP | PEC | CONDITION |
| CELL BALANCE | 120mA | Passive Balance | Cell Voltage Difference >40mV |
| TEMPERATURE ACCURACY | 3% | Cycle Measurement | Measuring Range -40°F to ≈212°F (-40°C to ≈100°C) |
| VOLTAGE ACCURACY | 0.5% | Cycle Measurement | For Cells & Module |
| CURRENT ACCURACY | 3% | Cycle Measurement | Measuring Range -200A - 200A |
| SOC | 5% | - | Integral Calculation |
| POWER CONSUMPTION | Sleep & Off Mode | <300uA | Storage/Transport/Standby |
| POWER CONSUMPTION | Operating Mode | <25mA | Charging/Discharging |
| COMMUNICATION PORTS | RS485/CAN | | Can be customized |
| BATTERY HEATER SPECIFICATIO | NS | | |
| PARAMETER | SPEC | | CONDITION |
| VOLTAGE | 56V | | - |
| POWER CONSUMPTION | 224W | | - |
| INTERNAL BATTERY TEMPERATURE | ≤32°F (0°C)/≥41°F (5°C) | | Heat On/Heat Off |





EVian-EG4® Wallmount INDOOR 280AH LITHIUM BATTERY



| ENVIRONMENTAL PARAMETERS | | |
|--------------------------|--|--|
| CHARGING RANGE | 32° to ≈113°F (0°C to ≈45°C | |
| DISCHARGING RANGE | -4°F to ≈122°F (-20°C to ≈50°C) | |
| STORAGE RANGE | -4°F to ≈122°F (-20°C to ≈50°C) | |
| INGRESS PROTECTION | IP20 | |
| PHYSICAL SPECIFICATIONS | | |
| DIMENSIONS (H×W×D) | 36.4 in.×18.1 in.×9.6 in. (925 mm×460 mm×245 mm) | |
| WEIGHT | 282.2 lbs. (128 kg) | |
| DESIGN LIFE | >10 Years | |
| CYCLE LIFE | >8000 cycles, 0.5C 80% DOD | |
| LIFETIME PRODUCTION | 82.6MWh** | |
| SAFETY CERTIFICATIONS | | |
| CERTIFICATIONS | UL1973, UL 9540A (Passed) | |

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

**(51.2V×280Ah/1000×80%×8000 cycles/1000)90%=MWh

***For information regarding warranty registration on EG4*Electronics products, please navigate to <u>https://eq4electronics.com/warranty/</u> and select the corresponding product to begin the registration process.

