EG4® 14.3kWh PowerPro WallMount All Weather Battery

Built-In 200A BMS	51.2V 280Ah (48V Nominal)	10 Year Warranty >8000 Cycles at 80% DOD	82.6MWh Lifetime Production*

On-Board LCD Touch Screen

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

Dual On-Board Fire Arrestors

Offer fail-safe protection against thermal runaway.

Quick Connect Battery Cables

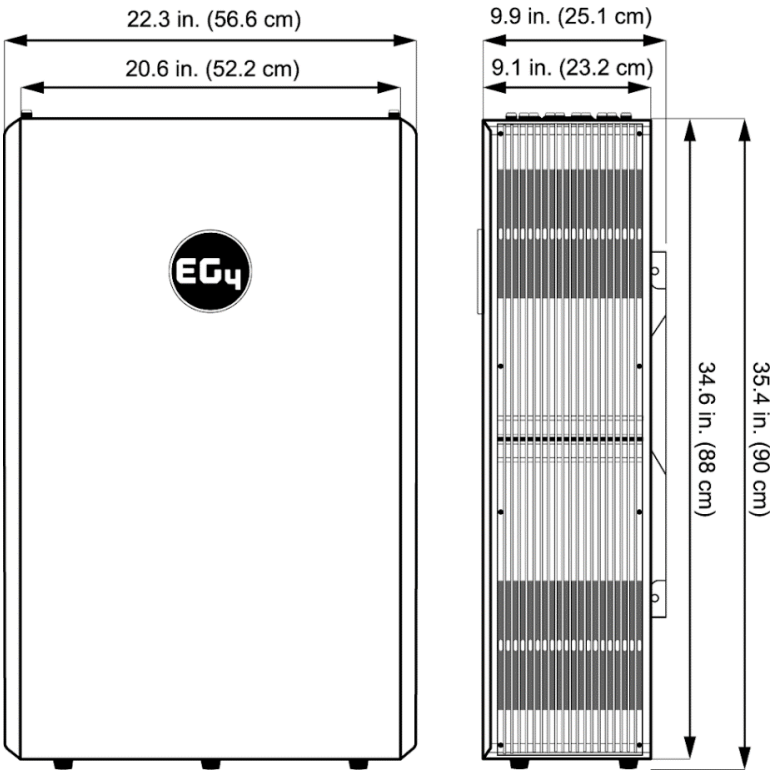
Included battery cables with Amphenol connectors (or SurLok equivalent) allow for fast, safe, and reliable battery connections.

Integrated Self-Heating Feature

Heats the battery when the ambient temperature is low. A key feature for outdoor $LiFePO_4$ battery cell operation.

Innovative Emergency Stop Function

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



The perfect partner to the EG4® 18kPV

The optional conduit box mates directly up to the connection ports of the 18kPV inverter cable box for sleek installation. For other inverters or stand-alone battery installation, the included conduit box plugs should be installed.

EG4® 14.3kWh PowerPro WallMount All Weather Battery

Module Operating Parameters			
Parameter	**BMS**	**Recommended Charger Settings**	
Voltage	51.2V	–	
Capacity	280Ah / 14.3kWh	–	
Charging Voltage (Bulk/Absorb)	56.0V (+/-0.8V)	56.2V (+/-0.2V)	
Float	–	54V (+/-0.2V)	
Low DC Cutoff	44.8V	47-45.6V (start high, lower as needed)	
Charging Current	100/140/200A (Max. continuous)✱ *(see note below table)*	60A - 160A	
Discharging Current	200A (Max. continuous)	160A	
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	IP65		
Charging/Discharging 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	**Spec**		**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 Specifications			
Parameter	**Spec**		**Condition**
Voltage	56V		–
Power Consumption	224W		–
Internal Battery Temperature	≤32°F (0°C)/≥41°F (5°C)		Heat On/Heat Off
Physical Specifications			
Dimensions (H×W×D)	34.6 in.×22.3 in.×9.1 in. (88.0 cm×56.6 cm×23.2 cm)		
Weight	308.6 lbs. (140 kg) +/-1kg		
Design Life	>15 Years		
Cycle Life	>8000 Cycles, 0.5C 80% DOD		
Lifetime Production	82.6MWh*		

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

✱*Note: The default BMS in the module allows for 100A charging current maximum. To achieve higher charging currents, please contact your distributor for optional firmware files, or navigate to https://eg4electronics.com/downloads/ for the most up to date firmware.*

Please also make note that if the battery firmware is updated to allow 200A maximum charge, the internal thermal sensors will throttle the charge current to what the BMS deems necessary to prevent overheating.