

# Epoch 300Ah Essentials Specifications Sheet



**EPÉCH**  
BATTERIES

## Epoch Essentials 300 Ah QUICK SPECS



This battery has a built-in heater that heats the battery to enable charging at low temperatures. You can connect to this battery via bluetooth with an app that gives you realtime battery statistics.

### ELECTRICAL SPECIFICATIONS

<b>Voltage:</b>	12.8V
<b>Chemistry:</b>	LiFePO4
<b>Charging Voltage Range:</b>	14.0 - 14.6V
<b>Max Charge Voltage:</b>	14.6V
<b>Operating Voltage Range:</b>	10 - 14.6V
<b>kWh Capacity:</b>	3.84 kWh
<b>Ah Capacity:</b>	300Ah
<b>Cell Configuration:</b>	4S1P
<b>Max Continuous Discharge Amps:</b>	200A
<b>Max Continuous Power Watts:</b>	2560
<b>Max Discharge Peak Current Amps:</b>	400A (3 Seconds)
<b>Max Charge Current Amps:</b>	200A
<b>Charge Temp Range:</b>	-20°C (-4°F) / 55°C (131°F) (with heating)
<b>Discharge Temp Range:</b>	-20°C (-4°F) / 60°C (140°F)
<b>Optimal Discharge Temp Range:</b>	15°C (59°F) / 35°C (95°F)
<b>Storage Temp:</b>	0°C (32°F) / 35°C (95°F) (Max 12 Months)
<b>Weight:</b>	58 (LBS)
<b>Length Inches:</b>	7.5
<b>Width Inches:</b>	13.6
<b>Height Inches:</b>	9.7
<b>Safety Features:</b>	BMS (Battery Management System) Over Voltage, Under Voltage, Over-Current, Short Circuit, Over Temperature, Under Temperature
<b>Series   Parallel:</b>	Max (4) in Series up to 48V Max (4) in Parallel - 4S4P



Our pre-existing relationship with EVE has seen us supply thousands of prismatic cells to end users, businesses and commercial suppliers over an extensive period of time.

Having worked with EVE, we have a comprehensive understanding of the cell chemistry and technical specifications making EVE the perfect partner for our Epoch Essentials battery lineup.

Many battery suppliers simply won't know which cells are being used at the assembly phase, nor will they understand the grading, quality processes or what configuration is being used. This is why we've been involved since the inception of our product, selecting each component, from the prismatics, to the BMS and heating components - to create the ultimate battery.



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## Storing your Battery

We strongly suggest your batteries are stored at room temperature, charged to about 50% to 100% of capacity.

We recommend that batteries be charged once every three months to prevent over discharge.

## Battery Performance

Because Lithium Iron Phosphate batteries utilise a chemical reaction, battery performance will deteriorate over time even if stored for long periods of time without being regularly used.

In addition, if the various usage conditions such as charge, discharge, ambient temperature, etc. are not maintained within the specified ranges, the life expectancy of the battery may be shortened, or the device in which the battery is used may be damaged by electrolyte leakage.

If the batteries cannot maintain a charge for long periods of time, even when they are charged correctly, this may indicate it is time to change the battery.

## Battery Safety

- Do not disassemble your battery.
- Do not short the battery.
- Do not store your batteries in direct sunlight.
- Store the battery in a cool and well ventilated area.
- Keep batteries away from flammable objects and materials.
- Never leave a battery unattended whilst charging.
- Keep batteries away from static electric charges.
- Keep out of reach from animals and children.
- Do not immerse your battery in water.
- Do not crush, incinerate or modify your battery.
- Only use batteries within the manufacturers specifications.
- Recycle your batteries correctly.

## Battery Series and Parallel Mode

Battery modules can be used simultaneously four (4) in series, and four (4) in parallel connection.

## Charging

Your battery should be charged using a lithium iron phosphate battery charger.

Charging Voltage 14.4V

Recommended : 14.4V Bulk, 14.4V Absorption & 13.8V Float

Charging Current : Up to 200A

## Battery Performance

- Epoch offers an 11 year warranty on all Epoch batteries.
- Warranties only apply to the original owner and are non-transferrable.
- Epoch will verify your purchase prior to processing any warranty claims or returns.
- Our warranty does not cover items that have been damaged due to gross negligence, normal wear and tear, damage due to accident or collision, abuse or incorrect installation.

## Download the Epoch Batteries App

As an Epoch customer, you'll also get the use of our fantastic Epoch Li-ion App. Our App has been custom built to connect directly with the BMS, allowing you to manage and maintain the health of the battery at all times. Epoch Li-ion App is free to download on both Android and iOS. You can find out more about the Epoch Li-ion App at our website: [www.epochbatteries.com](http://www.epochbatteries.com)

