



The Ampetus Super Lithium Battery

10 year standard warranty – extendable to 15 years!



The Ampetus Super Lithium Battery is an award winning battery developed using ground-breaking nanofabrication.

The Ampetus Super Lithium Battery is a high-performance, completely safe, lithium iron phosphate (LiFePO₄) battery. The battery is compatible with both high and low voltage inverters. There are no less than 18 patents associated with the innovations in the battery.

Our factory has an annual production capacity of 1 GW. These batteries are produced in a new, state-of-the-art, highly automated production facility. This modern facility is 66,000 m² in total.

Benefits

	Feature	Benefit
✓	Exceptional life-span!	The battery is designed to deliver 10,000 cycles.
✓	Unequaled Warranty!	Standard 10 year warranty – up to 15 year warranty available
✓	Use Every Last Drop!	Using 100% of rated capacity means you get to use all the battery energy that you paid for.
✓	Modular!	Only pay for the size of system you need. Upgrade at any time in the future.
✓	Superior Safety!	Superior safety (LiFePO ₄ battery chemistry is extremely stable)
✓	Advanced Management!	Active Balancing Technology contributes to prolonged system life
✓	Wide Temperature Range!	Low and high-temperature performance means this battery works in most environments

✓	Safe and Secure!	Conforms to internationally recognised safety standards. Does not produce any harmful gases or acid by-products. All-aluminium cover design – robust
✓	High energy density!	Makes it compact and lightweight. Fits in tight spaces and easy to manoeuvre
✓	Easy to Install & Maintain!	Resulting in lower assembly costs. Maintenance is easy due to simple rack-mount topology, meaning extremely quick response and replacement time (minutes, not days!)



Ampetus 3 KWh Battery Stack



Empty Battery Cabinet

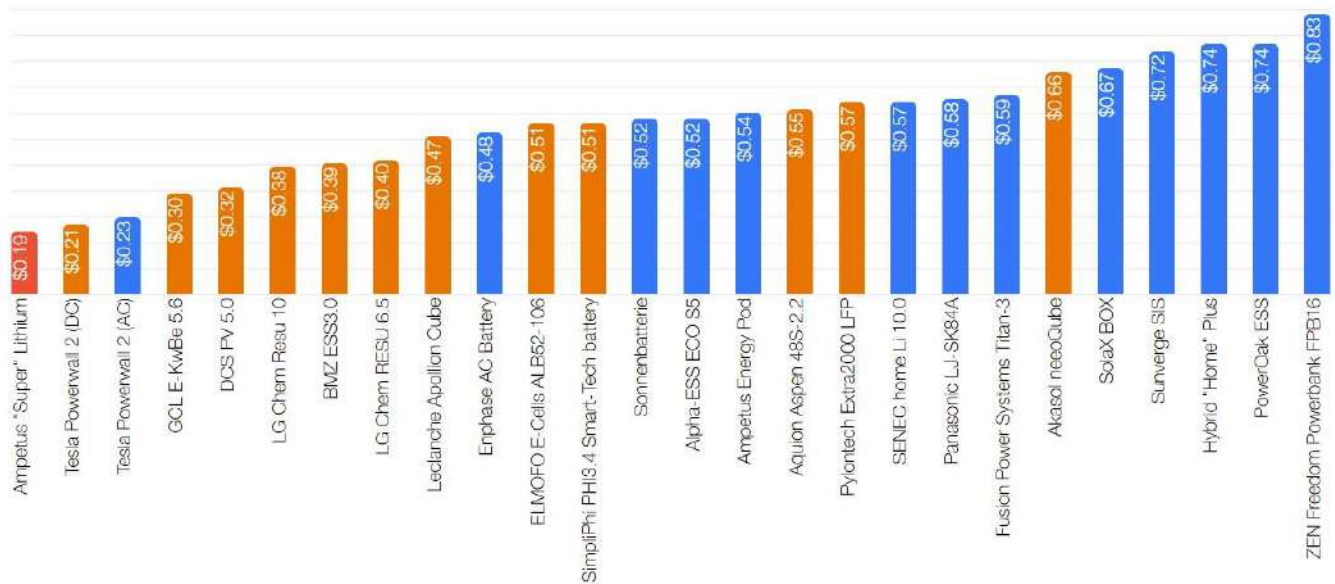


Fully Loaded Cabinet (15 KWh usable)

3KWh Battery Stack Datasheet

Nominal Voltage / Capacity	51.2 VDC / 60AH
Operating Voltage	42-58.4VDC
Nominal Charge Current	30A
Nominal Discharge Current	30A
Maximum Discharge Current	45A
Rated Power Output	3KW
Faradiac Charge Efficiency (25°C)	99%
Battery Round Trip Efficiency (1C, 25°C)	97%
Built in Protection	Overcharge & Over-Discharge / Temperature Protection / Short Circuit
Data Communication Interfaces	RS485 / CAN-BUS
Discharge Temperature Range	-20°C to 55°C
Charge Temperature Range	0°C to 45°C
Environmental Protection Rating	IP21
Cycle-life	10,000 cycles
Battery Size (Width/Depth/Height)	442mm/687mm/131mm
Battery Weight	53KG (38KG LFP Cells, 15 KG Mechanical)
Cabinet Size (Width/Depth/Height)	650mm/700mm/1,150mm
Cabinet Weight	98KG
Warranty	10 years standard – 15 years optional

Most Affordable Australian Battery*



*These are results from independent website solarquotes.com.au

**Inverters* approved to work with
Ampetus “Super” lithium batteries**



*Not all models available through Ampetus. Many more available soon.

Warranty

Warranty for:

The Ampetus Super Lithium Battery 3KWH Battery Stack (the Subject of the Warranty).

This product is warranted under the following conditions.

1. Limited Product Warranty

The Ampetus Super Lithium Battery LiFePO₄ storage battery is warranted to be free from defects in service and materials for a standard period of ten (10) years or an optional extended period of fifteen (15) years from the warranty start date. If a battery stack malfunctions or becomes inoperative due to a defect in service or material during the ten or fifteen year period of this warranty, the battery will either be repaired or replaced at the manufacturer's sole discretion. A refund of the then-remaining capacity value of the same type battery. The repair, replacement, or refund remedies shall be the sole and exclusive remedies provided under this "Limited Warranty". Any deterioration in appearance of the battery (including any scratches, stains, mechanical wear, rust, or mold), or any other changes to the batteries which occur after delivery to the customer, do not constitute a defect under this Limited Warranty unless it materially impairs the product's storage performance as warranted pursuant to clause 2. A claim in the event of steel case breakage arises only to the extent that there was no external cause to the breakage. This "Limited Product Warranty" does not warrant a specific power output, which shall be exclusively covered under clause 2 hereinafter ("Limited Performance Warranty").

2. Limited Performance Warranty

The Ampetus Super Lithium Battery is warranted to retain at least 80% of its Nominal Energy (3kWh) for 7 years after the date of invoice, and at least 70% of Nominal Energy for 10 years after the date of invoice, and at least 60% of Nominal Energy for 15 years after the date of invoice (if an extended warranty has been purchased) under proper use

conditions during the Term of Performance Warranty. The term “Nominal Energy” herein means the initially rated capacity of the Subject of the Warranty as printed on the label of the Subject of the Warranty. The precondition of the valid Performance Warranty shall be as follows:

1) The Product shall maintain **>90%** of its initial rated capacity until the earliest to occur of:

- a. The lithium-ion battery cells in the Product have reached **2.19MWh** of aggregate discharge throughput(at the battery DC output); or
- b. **2 years** have expired from the Original Installation Date

2) The Product shall maintain **>85%** of its initial rated capacity until the earliest to occur of:

- a. The lithium-ion battery cells in the Product have reached **5.48MWh** of aggregate discharge throughput(at the battery DC output); or
- b. **5 years** have expired from the Original Installation Date

3) The Product shall maintain **>70%** of its initial rated capacity until the earliest to occur of:

- a. The lithium-ion battery cells in the Product have reached **10.95MWh** of aggregate discharge throughput(at the battery DC output); or
- b. **10 years** have expired from the Original Installation Date

4) If customer purchases 15 years extended warranty, then, The Product shall maintain **>60%** of its initial rated capacity until the earliest to occur of:

- a. The lithium-ion battery cells in the Product have reached **16.93MWh** of aggregate discharge throughput(at the battery DC output); or
- b. **15 years** have expired from the Original Installation Date