



EnerLIFE BESS 12V7

LiFePO4 Lithium battery **12 Volt 7Ah**

Battery Energy industrial grade lithium batteries feature high energy density in a smart form factor with fast charging times making them the right choice for your performance power solutions.

Big in energy. Small in size.

Optimised for tight spaces, EnerLIFE lithium batteries have one of the best energy densities on the market. Designed for a 19" rack, they provide high energy storage in a small package. Their lightweight design means you can reduce your battery bank's weight up to a 60%.

Installation and maintenance are made simpler with the easy to use front terminal connectors which also reduce connection complexity allowing for parallel or series connections.

Long lifecycle and fast charging

Your batteries will last longer, recharge faster and have a superior cycle life due to the stable, high quality chemistry of the EnerLIFE lithium battery range. The low self-discharge and high round-trip efficiencies result in less energy lost during operation lowering the cost of your energy storage. These batteries have greater flexibility due to their ability to operate continuously at a partial state of charge without harm.

Why choose Battery Energy?

Battery Energy Power Solutions deliver the combination of premier energy storage solutions, technical expertise and industry-leading experience all backed with continual support to give you peace of mind

Highlights:

- Australian designed.
 - A third of the weight of VLRA batteries.
 - Zero emissions and rated to 55°C operating temperature.
 - Sophisticated battery protective system.
 - Individual cells can be hot swapped at site to minimise downtime.
 - 100% testing prior to dispatch to ensure batteries are fully charged and prepared for reliable performance.
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Specifications

Nominal voltage	12.8V (DC)
Nominal capacity	7±0.5 Ah
Nominal current	7 A C1
Maximum current	7 A
UN type number (module chemistry)	UN 3480
Lithium composition	Lithium Iron Phosphate (LFP)
Cell Type	Lithium-ion (cylindrical)
Decisive voltage classification (DVC)	Class A

Electrical performance

Maximum DC power	89.6 Watts
Minimum charge current	1.4 Amps (0.2C)
Maximum charge current	7 A (C1)
Number of Cells	8 4S2P
Charge / discharge cycles	≥2000 cycles at 100% DOD Capacity retention >80%
Operating temperature limits	Charge 0° to 45°C Discharge -20° to 55°C
Operating humidity (non-condensing)	5% ≤RH≤85%

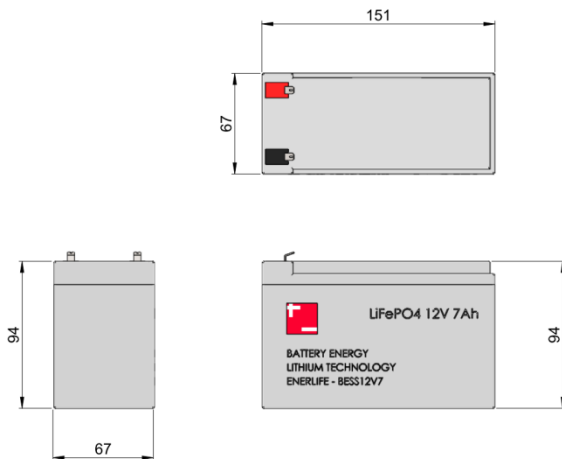
Mechanical characteristics

Length	151 mm
Width	67 mm
Height	94 mm
Weight	1.1±0.2 kg
Terminal	Spade Terminal
IP rating	IP65
Casing / coating	V-0 Flame Retardant

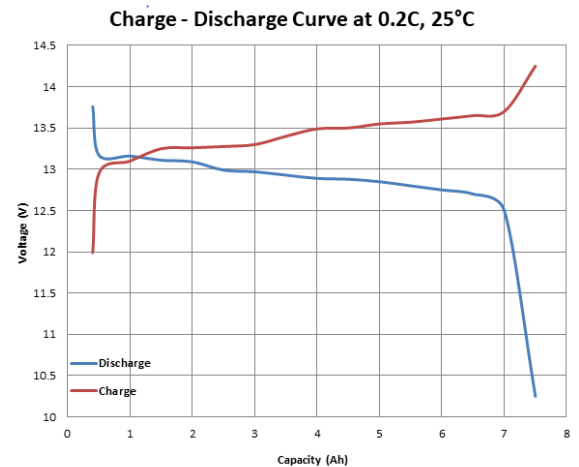
Safety performance

BMS over volt cut off (approx)	14.4±0.2V
BMS under volt cut off	8±0.2V
BMS over temp cut off	55°C on discharge
Charge time (approx)	5 hours at 1.4 A 0.2C 1 hours at 7 A C1
Self-discharge	<2.5% / month
Round trip charge / discharge efficiency	≥99%

Battery Dimensions



Charge – Discharge Curve



Discharge constant current at 25°C (Amperes)

End Vpc	5M	10M	15M	30M	45M	1H	2H	3H	4H	5H	8H	10H	12H	20H	24H
2.00	7.00	7.00	7.00	7.00	7.00	7.00	3.50	2.33	1.75	1.40	0.86	0.70	0.58	0.35	0.29

Discharge constant current at 25°C (Watts per cell)

End Vpc	5M	10M	15M	30M	45M	1H	2H	3H	4H	5H	8H	10H	12H	20H	24H
2.00	14.00	14.00	14.00	14.00	14.00	14.00	7.00	4.66	3.50	2.80	1.72	1.40	1.16	0.70	0.58

For more information

Please contact your Battery Energy Sales Representative, call 1800 819 829 or visit our website: batteryenergy.com.au

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