AERL LiFe²

Lithium Battery Storage



5.12 kWh
Per module · 100 Ah

51.2 V
Nominal voltage

100 A
Continuous · 1C

64
Modules in parallel

Powered by **Great Power**

LiFe² Battery Storage

LiFePO4 Battery · 51.2 V

The LiFe² pairs **Active Battery Management** with **LiFePO4 Prismatic Cells**, built for tough Australian conditions. Expand it with **Plug-and-Play Cabinets**, and keep running with **Automatic Fallback to Self-Management** if comms are lost (when used with supported inverters).

Easy to connect
Managed or Self-Managed operating modes.

Scalable
Up to 64 battery modules in parallel.

Hot swappable
Easily swapped without system interruption.

Reliability
Automatic fallback to Self-Managed if comms are lost. (when used with supported inverters)

LiFePO4
LiFePO4 chemistry housed in a robust prismatic cell construction.

Easy installation
Quick plug-and-play connections save time on site.

Pre-wired cabinets
Choose from 4, 6 or 10 battery module pre-wired cabinets.

Remote monitoring
Performance and system management through AERL Cloud.

Warranty
5 years, or a 10-year 70% product and performance warranty when registered within 60 days of installation. (Conditions apply)

Cabinet specifications

Part number	LiFe²-CAB6	LiFe²-CAB10	LiFe²-CAB4-OUTD	LiFe²-CAB6-OUTD	LiFe²-CAB10-OUTD
Dimensions (W × H × D)	**620 × 1270 × 600 mm**	**620 × 1890 × 600 mm**	**580 × 1380 × 400 mm**	**680 × 1240 × 700 mm**	**680 × 1800 × 700 mm**
Fixing	**4 × wheels, 4 × feet**		**4 × bolt points, 4 × lift points**		
Max. module quantity	**6 (30.72 kWh)**	**10 (51.20 kWh)**	**4 (20.48 kWh)**	**6 (30.72 kWh)**	**10 (51.20 kWh)**
Busbar continuous current rating	**625 A**	**1250 A**	**250 A**	**400 A**	**600 A**
Battery interconnection	**Pre-wired Quick Connector with 4 AWG UL Cable**				
DC circuit breaker	**None**				
IP rating	**IP20**		**IP55**		
Weight	**91 kg**	**128 kg**	**52 kg**	**135 kg**	**142 kg**
Warranty	**2 years**				

Cabinet warranty conditions: see the LiFe² warranty statement.

Battery Specifications

LiFe²-5120S

Electrical

Part number
LiFe²-5120S

Nominal voltage
51.2 V DC

Operational voltage range
40.8 V DC to 58.4 V DC

Capacity
5.12 kWh / 100 Ah

Depth of discharge
Up to 100%

Max. continuous discharge rate
1C (@ 25 °C)

Max. continuous discharge current
100 A (@ 25 °C)

Max. discharge power
5.12 kW

Peak discharge current
200 A (10.24 kW, 5 s)

Max. continuous charge C-rate
1C (@ 25 °C)

Max. continuous charge current
100 A (@ 25 °C)

Peak charge current
200 A (@ 25 °C)

Integrated circuit breaker
2-pole, 125 A, 80 V DC

Efficiency
> 96%

Cell & BMS protection

Lithium chemistry
LiFePO4 / LFP

Cell construction
Prismatic

BMS over-voltage (cell level)
3.65 V DC

BMS under-voltage (cell level)
2.55 V DC

BMS over-temp cut off
56 °C

Short circuit current
2000 A

Arc flash incident energy IEm (45 cm)
0.341 cal/cm²

Arc flash boundary AFB
23.952 cm

Environmental

Operating temp. — managed
Charge: −10 to 55 °C
Discharge: −20 to 55 °C

Operating temp. — self-managed
Charge: 0 to 55 °C
Discharge: −5 to 55 °C

Operating humidity
Up to 95% (non-condensing)

Altitude
< 2500 m

IP rating
IP20

Cooling
Natural convection

System & mechanical

DC connectors
125 A Quick Connect

Scalability
64 batteries in parallel

Series connection
Not permitted

Communications
CAN 2.0A / RS485 / No Comms

Weight
44 kg

Dimensions (W × H × D)
440 × 134 × 480 mm

Warranty
5 years; 10 years if registered within 60 days of installation*

Certifications
IEC 62619:2022, IEC 62040-1, UN 38.3, CE

* Conditions apply — see the LiFe² warranty statement.

AERL reserves the right to change any product, product specifications and data without notice to improve reliability, function, or design or otherwise.



SUPPLIED AND SUPPORTED BY

AERL
1/75 Bluestone Circuit, Seventeen Mile Rocks QLD 4073

CELLS

Powered by **Great Power**

CONTACT

1800 950 865
sales@aerl.com.au
aerl.com.au

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