LiFe^2

Energy Storage Module

The **AERL LiFe^2** incorporates leading edge Battery Management Technology (BMS) and world-class LiFePo4 prismatic cells for a robust and reliable energy storage solution.

Offering effortless scalability, expand your system with extra **LiFe^2** modules or battery cabinets.

In an industry first, and for complete peace of mind, the **AERL LiFe^2** modules seamlessly transition from managed to self-managed if communications are lost or temporarily interrupted.

Easy to Connect

Operates managed or self-managed.

Scalable

Up to 64 Units in parallel.

Hot Swappable

Easy swapped without system interruption.

Reliability

Transitions to self-managed if comms are lost.

LiFePO4

LiFePO4 chemistry housed in a robust prismatic cell.

Easy Installation

Easy installation with quick plug and play connections.

AERL Pty Ltd
2/75 Bluestone Circuit,
Seventeen Mile Rocks, QLD, AU
sales@aerl.com.au
www.aerl.com.au

AERL reserves the right to change any product, product specifications and data without notice to improve reliability, function, or design or otherwise.
Copyright © 2024 AERL Pty. Ltd. All Rights Reserved. AERL LiFe^2 Specification REV 001 – 10th March 2024

Battery Specifications	
Parameter	AERL LiFe^2 Modules
Part Number	**LiFe2-5120S**
Nominal Voltage	51.2 V DC
Operation voltage Range	40.8 V DC to 58.4 V DC
Capacity	5.12 kWh / 100 Ah
Depth of Discharge	Up to 100%
Maximum Continuous Discharge Rate	1C (@25°C)
Maximum Continuous Discharge Current	100 A (@25°C)
Maximum Discharge Power	5.12 kW
Peak Discharge Current	200 A (10.24 kW, 5s)
Maximum Continuous Charge C-Rate	1C (@25°C)
Maximum Continuous Charge Current	100 A (@25°C)
Peak Charge Current	200 A (@25°C)
Integrated Circuit Breaker	1-Pole 125A 80VDC
Lithium Chemistry	LiFePO4 / LFP
Cell Construction	Prismatic
Operating Temp Range (Self-Managed)	Charge: 0°C to 50°C / Discharge -5°C to 50°C
Operating Temp Range (Managed)	Charge: -10°C to 50°C / Discharge -20°C to 50°C
Operating Humidity	Up to 95% (non-condensing)
BMS Over-Voltage Cell Level Protection	3.65 V DC
BMS Under-Voltage Cell Level Protection	2.55 V DC
BMS Over-Temp Cut Off	56°C
Short Circuit Current	4500A
Altitude	< 2500m
DC Connectors	100A Quick Connect
IP Rating	IP40
Efficiency	> 96%
Cooling	Natural Convection
Scalability	64 Batteries in Parallel
Series Connection	Not Permitted
Communications	CAN 2.0A / RS458
Weight	44 kg
Dimensions	440 x 134 x 480 mm
Warranty	5 + 5 Years (Up to 10 Years) - Conditions Apply
Certifications Cell	UL1973, UL9540A, IEC62619:2022, UN38.3
Certifications Pack	IEC62619:2022, IEC62040, UN38.3, CE
Warranty	Refer Warranty Document

Cabinet Specifications		
Parameter	AERL LiFe^2 Cabinets	
Part Number	**LiFe2-CAB6**	**LiFe2-CAB10**
Dimensions	600 x 600 1270 mm	600 X 600 1890 MM
Fixings	4 Wheels + 4 Feet	
Max. Module Quantity	6 (30.72 KW)	10 (51.20 KW)
Busbar Continuous Current Rating	625 A	1250 A
Battery Interconnection	Pre-wired Quick Connect (4 AWG UL Cable)	
DC Circuit Breaker	Dual Pole 200 A	None
IP Rating	IP20	
Weight	91 Kg	128 Kg
Warranty	Refer to Warranty Document	

AERL Pty Ltd
2/75 Bluestone Circuit,
Seventeen Mile Rocks, QLD, AU
sales@aerl.com.au
www.aerl.com.au

AERL reserves the right to change any product, product specifications and data without notice to improve reliability, function, or design or otherwise.
Copyright © 2024 AERL Pty. Ltd. All Rights Reserved. AERL LiFe^2 Specification REV 001 – 10th March 2024