

48V 5.12kWh 19in LFP pack

Vaulta batteries offer a safe and reliable energy source that are suitable for various applications such as telecom, and on/off grid. Vaulta batteries are designed and made in Australia, and are the most environmentally friendly battery systems on the planet. Available for purchase or white labelling.

Safe

- Safety certified
- Multiple short circuit protection
- Cell level monitoring
- Thermal protection and cut-offs

Reliable

- 10 year calendar life
- Multiple charge/discharge profiles
- High energy density at packaged level (up to 145Wh/kg)
- Lithium Iron Phosphate – safer than NMC
- Repairable in the field

Circular

- Zero cobalt
- Vaulta Inside TM

Vaulta Inside means it's using Vaulta proprietary technology, which means it's designed for:

- Local assembly
- Cell level repair
- Cell re-use
- Cell level recycling



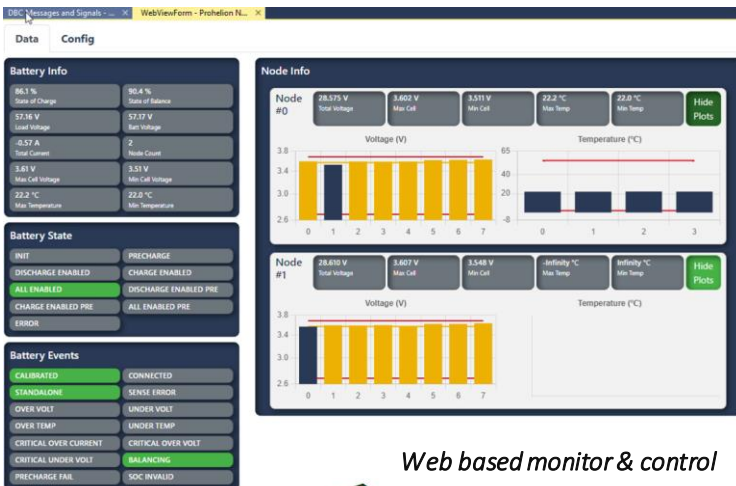
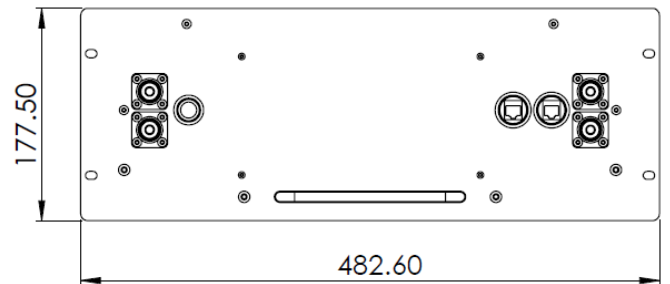
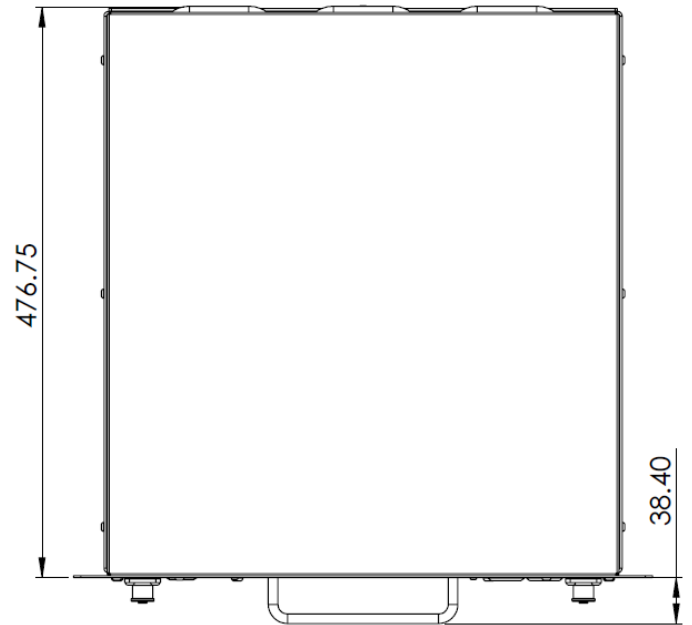
Specifications		
Nominal voltage (Vdc)		48 (51.2)
Nominal capacity (kWh)		5.12
Usable capacity (kWh)		4.86
Dimensions (mm)		178mm (4U) x 482 (19in rack) x 487
Weight (Kg)		<50
Charge / Discharge Current (A)	Recommended	50A/50A (0.5C)
	Max continuous	100A/100A (1C)
Communication port		CANBUS
String		16
BMS balancing		660 mA
Working temperature (°C) - charge		0 to 55
Working temperature (°C) - discharge		-20 to 55
Shelf temperature (°C)		25°C
Calendar life		10 years @ 25°C
Cycle life		4000 cycles @ 35°C, 80% DOD, 0.5C/0.5C (compression) 3000 cycles @ 35°C, 80% DOD, 1C/1C (compression)
Planned certifications		UL1973/ASIEC62619/ UN38.3



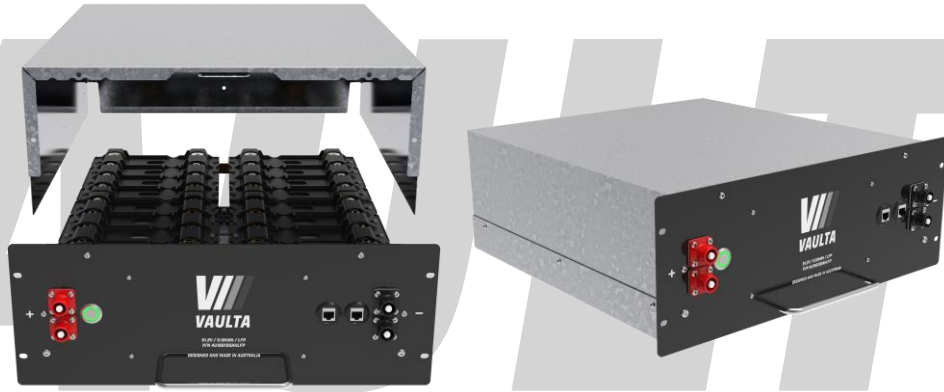
BMS FUNCTIONALITY

Manufactured in	Brisbane, Australia
Cell Chemistry	All - LiFePO4, Li-ion, LTO
Cell Voltage Sense Accuracy (mV)	1
Power Consumption Max (mA)	30
Power Consumption Sleep (µA)	4
Number of Temperature Sensors	8
Fused Cell Sense	Yes
Reverse Polarity Protection	Yes
Over-charge/discharge protection	Yes
Over-current, over/under temp protection	Yes
Short circuit protection	Yes
Coulomb Counter	Yes
CANBUS Communication	Yes

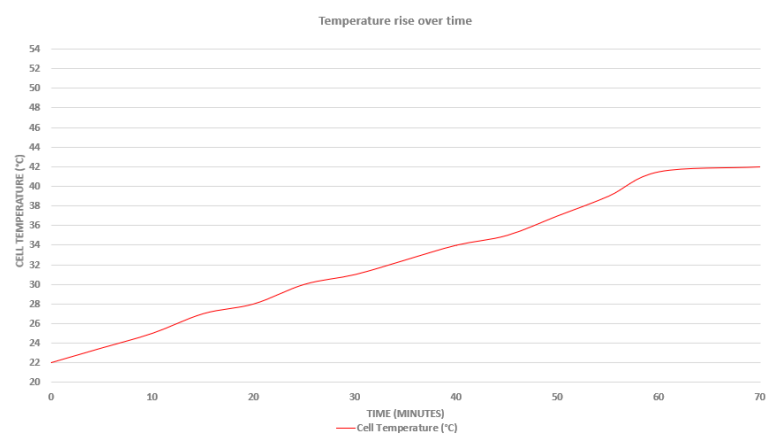
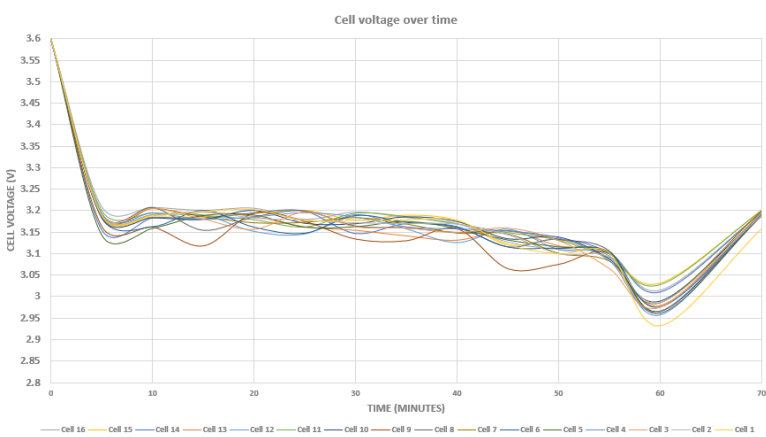
MECHANICALS



Web based monitor & control



1C DISCHARGE



1C CHARGE (DIRECTLY AFTER DISCHARGE)

