

# 48V 14.36kWh 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)		14.36
Usable capacity (kWh)		13.64
Dimensions (mm)		267mm (6U) x 482 (19in rack) x 720
Weight (Kg)		<95
Charge / Discharge Current (A)	Recommended	70A/70A (0.25C)
	Max continuous	140A/140A (0.5C)
Communication port		RJ45 - CANBUS
String		16
BMS balancing		Passive (660mA)
Working temperature (C°) - charge		0 to 55
Working temperature (C°) - discharge		-20 to 55
Shelf temperature (C°)		25 recommended
Calendar life		10 years @ 25 (C°)
Cycle life		4000 cycles @ 35 (C°) 80% DOD, 0.5C/0.5C (compression) 3000 cycles @ 35 (C°), 100% DOD, 0.5C/0.5C (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 Yes protection Short circuit protection Yes Coulomb Counter Yes **CANBUS Communication** Yes

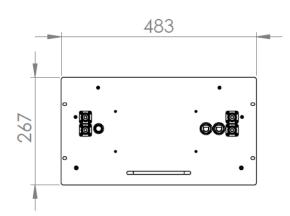


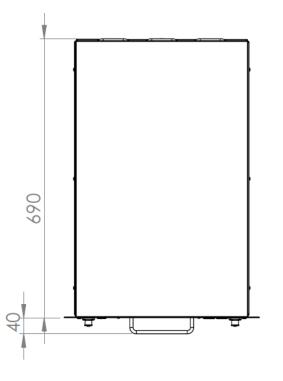


Web based monitor & control



## **MECHANICALS**











## **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

### **BMS Specifications**

- Monitors up to 28 cells of any lithium-ion chemistry
- Pre-charge,/charge/discharge control
- Over/under voltage and over/under temp protection
- 600mA cell balancing
- 200A continuous charge/discharge
- 8 cell temperature sense
- CANbus communication
- Monitoring via software on PC
- Alli-in-one unit
- Self-healing protocols, with critical errors designed to require human intervention
- 115mm x 215mm

