



48V 5.12kWh 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.

Smart

- Integrated with Victron, Deye
- Remote trouble shoot
- BMS sets parameters

Safe

- Vigorously tested
- 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 130Wh/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)	150mm x 353 x 468 (513 inc. terminal covers)
Weight (Kg)	<45
Charge / Discharge Current (A) Max continuous	50A/50A (0.5C)
Communication port	CANBUS (RJ45)
Max number of batteries in parallel	20
Battery configuration	16S1P
BMS balancing	660 mA
Working temperature (°C) - charge	0 to 60
Working temperature (°C) - discharge	-20 to 60
Shelf temperature (°C)	25°C
Calendar life	10 years @ 25°C
Cycle life	3500 cycles @ 35°C, 80% DOD, 0.5C/0.5C (compression) 2000 cycles @ 45°C, 80% DOD, 0.5C/0.5C (compression)
Planned certifications	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 (μ A)	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

