

The VAULTA Tower

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
- Pre-wired, access doors both sides, ready to deploy

Safe

- Vigorously tested
- Multiple short circuit protection
- Cell level monitoring
- Thermal protection and cut-offs

Reliable

- 10 year calendar life
- Multiple charge/discharge profiles
- Lithium Iron Phosphate – safer than NMC
- Repairable in the field

Circular

- Zero cobalt
- Vaulta Inside™

THE VAULTA TOWER

Specifications

	1	2	3
Number of batteries	1	2	3
Nominal voltage (Vdc)	48 (51.2)		
Nominal capacity (kWh)	14.36	28.72	43.08
Usable capacity (kWh)	13.84	27.28	40/92
Dimensions (cm)	130H x 60W x 80D		
Weight (Kg)	<250	<350	<450
Charge / Discharge Current (A) Max continuous	140A/140A (0.5C)	280A/280A (0.5C)	420A/420A (0.5C)
Communication port	CANBUS (RJ45)		
Battery configuration	16S1P	16S2P	16S3P
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	4000 cycles @ 35°C, 80% DOD, 0.5C/0.5C (compression) 3000 cycles @ 45°C, 100% DOD, 0.5C/0.5C (compression)		
IP rating	IP54 (with fans and anti-condensation)		

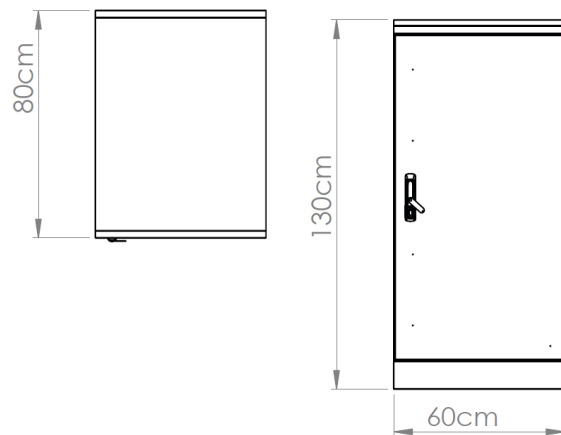
BMS FUNCTIONALITY	
Manufactured in	Brisbane, Australia
Cell Chemistry	All - LiFePO4, Li-ion, LTO
Cell Voltage Sense Accuracy (mV)	1
Power Consumption Max (mA)	30
Power Consumption Sleep (µA)	4
Number of Temperature Sensors	8
Fused Cell Sense	Yes
Reverse Polarity Protection	Yes
Over-charge/discharge protection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



Web Based Monitor & Control



Mechanicals



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

