

ETOWER

TECHNICAL BROCHURE



freedom
WON

Introducing the eTower 2

The eTower 2 is a modular lithium iron phosphate (LiFePO₄) energy storage system designed for residential and light commercial applications.

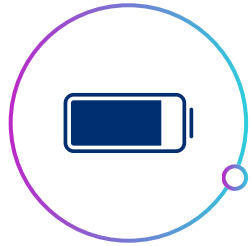
The system combines high cycle life battery technology, integrated battery management and scalable architecture to support backup power, self-consumption and hybrid energy storage deployments.

The eTower 2 builds upon the proven eTower platform with enhancements, such as forced air cooling, remote monitoring and App-based configuration.

The updated architecture has been engineered to simplify installation, improve long-term reliability and support evolving energy storage requirements.



Key Features



LiFePO₄ chemistry

Safe, stable lithium iron phosphate cells built for thermal stability and long-term reliability



Modular & stackable

Stack 1 to 6 modules in 5kWh steps. Add capacity easily without replacing your system



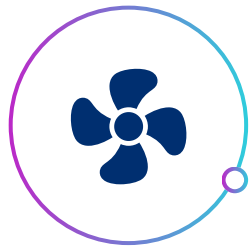
Advanced BMS protection

Over-current, voltage and temperature protection, weak-cell detection and active charge limiting



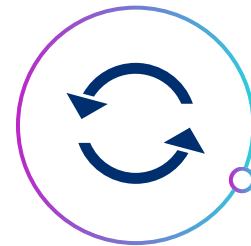
Wi-Fi & Bluetooth

Built-in connectivity for local and remote access - now standard on every eTower 2



Forced-air cooling

Integrated cooling fan aids in regulating cell temperature for increased performance and longevity



Backwards compatible

Integrates seamlessly with previous-generation eTower systems for easy expansion



App monitoring

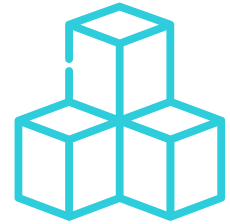
Track state of charge, performance, system health and more from the Android or iOS app



Local technical support

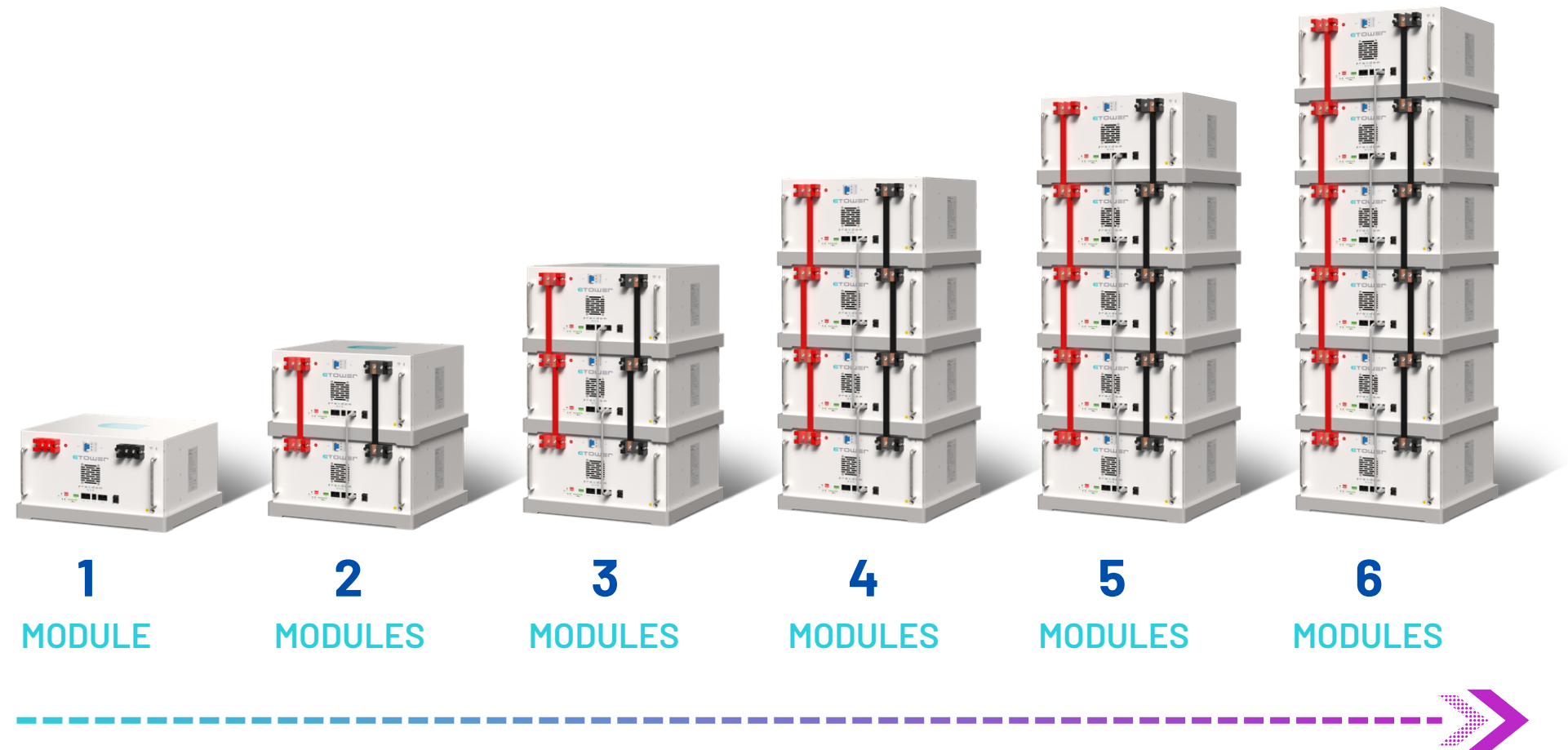
Backed by Freedom Won engineering support and an accredited distributor network on the ground

Build Your System



Grow in 5.12kWh Steps to 30.72kWh

Choose the storage size
that fits today and
expand later



Total Capacity [kWh]	5.12	10.24	15.36	20.48	25.60	30.72
Current Capacity [Ah]	100	200	300	400	500	600
Max. Inverter [kVA]	5	10	15	20	25	30

Energy control in your hand

Track battery performance, system health and energy use through the Freedom Won mobile App, with remote Wi-Fi access that keeps you connected from anywhere

- Real-time battery monitoring
- State-of-charge indication
- Remote diagnostics
- Battery analytics
- Wi-Fi & Bluetooth access



Specifications

The following specifications pertain to the Freedom Won eTower 2 modular stackable LiFePO4 battery, designed for smaller residential and light commercial applications with options of 1, 2, 3, 4, 5 or 6 modules in a tower per system. The eTower 2 is backwards compatible with previous generation eTower systems, allowing for seamless integration and system expansion.

	1 x eTower 2	2 x eTower 2	3 x eTower 2	4 x eTower 2	5 x eTower 2	6 x eTower 2
Total Energy Capacity [kWh]	5.12	10.24	15.36	20.48	25.6	30.72
Energy, 90% DoD [kWh]	4.5	9	13.5	18	22.5	27
Current Capacity [Ah]	100	200	300	400	500	600
Max/Cont. Charge Current [A]	80/70	144/126	216/189	288/252	360/315	432/378
Max/Cont. Charge Power [kW]	4.2/3.6	7.5/6.6	11.2/9.8	15/13.1	18.7/16.3	22.5/19.7
Max/Cont. Discharge Current [A]	100/90	180/160	270/240	360/320	450/400	540/480
Max/Cont. Discharge Power [kW] 2	5.2/4.7	9.4/8.4	14/12.6	18.7/16.8	23.4/21	28/25.2
Max Inverter Rated Power [kVA]	5	10	15	20	25	30
Nominal Voltage [V]	51.2V, to suit 48V Inverters, min 47V, max 56V. *Do not connect modules in series (for high voltage batteries, refer to Freedom Won HV range).					
Dimensions when eTower 2 placed horizontally: H x W x D (front to rear) [mm]	Single unit with pedestal: 249x467x426	Single unit with pedestal: 483x467x426	Single unit with pedestal: 718x467x426	Single unit with pedestal: 952x467x426	Single unit with pedestal: 1186x467x426	Single unit with pedestal: 1420x467x426
Dimensions - H x W x D (excluding busbars on front) [mm]	Single unit without pedestal: 224x442x384					
Crated Dimensions - H x W x D (per module) [mm]	310x532x502					
Combined Weight [kg]	52					
Crated Weight (per module) [kg]	55					
DC Leads to Inverter or DC Bus per positive & negative connection - minimum cable size *Cables excluded (see optional accessories) [mm²]	1 x 35	1 x 35	2 x 35	2 x 35	3 x 35	3 x 35
Installation Method	Stacked horizontally onto each other to form a tower with pedestals (one per module required as accessory option), or 19" rack mounted with brackets (sold as an accessory). Vertical mounting on floor or wall (shelf/bracket) with terminals facing upwards also acceptable (wall-mount bracket available as accessory). Generally up to 6 x eTower 2 modules per system. For larger capacity requirements, see Freedom Won ENVA 16 .					

Contact Us

Tech Support

support@freedomwon.co.za

Technical queries and product support



Give us a **call**

+27(0)10 597 7794

Project Support

enquiries@freedomwon.co.za

Sales and Project support



Send us an **e-mail**

enquiries@freedomwon.co.za

Where to Buy

www.freedomwon.co.za/where-to-buy

Find your nearest distributor



Find our **offices**

Longmeadow Business Estate
Hereford Rd
Modderfontein, Edenvale, 1609



Visit our **website**

www.freedomwon.co.za

FIND US ON:



The images featured in this brochure are for illustrative purposes only. Although we have taken care to ensure all information is accurate at the time of publication, we cannot be held responsible for any errors, omissions, or changes that may occur. For the most up-to-date information, please contact us directly.