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Energy for the future

PowerQub-XL



PowerQub-XL offers a battery as a service module which utilises re-lifed electric vehicle (EV) batteries to create cost effective and environmentally friendly grid-scale energy storage.

Offering up to a 1 MWh solution, the PowerQub-XL provides a sustainably sourced energy storage solution that is ideally suited for diesel replacement, grid storage, renewable energy storage, and remote community / facility power systems.

It also provides a solution to the large number of wasted, partially used automotive EV battery units, extending their life and preventing the need for complex recycling processes.

System features

Temperature

The system can either be air cooled or liquid cooled depending on the usage case, making it suitable for operation between 0°C and 50°C.

Higher efficiency

Adopting a cluster management technology increases system efficiency.

Cell to Cell active balance ensures the consistency between cells.

Intelligent Ops & Maintenance

Smart management and real time monitoring ensures high, efficient commissioning of the system.

Safe

The system has a multi-layered safety management system that constantly monitors every battery's cell health and temperature.

Gas/heat venting, fire suppression can be included as required.

Size

The system uses a compact modular design to deliver up to 1 MWh of storage per 20 ft shipping container.

Modules can be added or removed to customise the system to the required output.

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Use Cases

Hydrocarbon Replacement

e.g. Diesel genset replacement.

Remote Community Power System

Battery module can be integrated with solar, wind, hydropower and diesel systems to provide a resilient micro-grid power system.

Grid storage/buffer

Stationary Storage and EV Charging Stations

Benefits

Carbon footprint

Enlivens ESG performance and the pursuit of net zero emissions.

Waste reduction

Achieved through Re-use and Re-purpose of EV batteries.

Modular and temporary

Easy to deploy without the need for building permits.

Items	Parameters	
	PowerQub-XL-1000	PowerQub-XL-600
Type of cell	Lithium Iron Phosphate (LFP)	
Cell parameters	350 V / 176 Ah	
Batt. Charge/Discharge Power	315 kVA	175 kVA
Max. Power Delivery	450 kVA	250 kVA
Max. Continuous Output	650 A	360 A
Connection system	AC - 3 phase, 4 wire, 50 Hz	
Operation Mode	Grid Following and Off Grid Capable	
Rated capacity	1000 kWh	600 kWh
Rated voltage	230/400 V AC	
Voltage tolerance	+10% -6%	
Cooling method	Air / Liquid Cooling	
Environmental temperature	0°C to 50°C	
Operating temperature	0°C to 60°C	
Cell provider	Tesla	
Noise level	< 77.5 dB(A)	< 75.0 dB(A)
Paint system	C3 - medium (AS2312)	
Weight	≈ 13,500 kg	≈ 9,000 kg
Monitoring interface	4G or WiFi	
Enclosure type	20' Shipping Container	
IP grade	IP54	
Dimensions (L x W x H)	6058 x 2438 x 2591 mm	
Protection systems	Overload, Short Circuit, Earth Fault, Overvoltage, Undervoltage, Over Temperature	
Fire systems	Optional: Automated Aerosol Suppressant	

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