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Energy for the future

# PowerQub-L




**PowerQub-L 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 480 kWh solution, the PowerQub-L 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 480 kWh of storage per 10 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-L-480 | PowerQub-L-240 |
| Type of cell | Lithium Iron Phosphate (LFP) | |
| Cell parameters | 350 V / 176 Ah | |
| Batt. Charge/Discharge Power | 140 kVA | 70 kVA |
| Max. Power Delivery | 200 kVA | 100 kVA |
| Max. Continuous Output | 290 A | 145 A |
| Connection system | AC - 3 phase, 4 wire, 50 Hz | |
| Operation Mode | Grid Following and Off Grid Capable | |
| Rated capacity | 480 kWh | 240 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 | < 71.0 dB(A) | < 68.0 dB(A) |
| Paint system | C3 - medium (AS2312) | |
| Weight | ≈ 7,500 kg | ≈ 5,500 kg |
| Monitoring interface | 4G or WiFi | |
| Enclosure type | 10’ Shipping Container | |
| IP grade | IP54 | |
| Dimensions (L x W x H) | 2991 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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