MyNu Energy
Energy for the future

PowerQub-M



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

Offering up to a 160 kWh solution, the PowerQub-M provides a sustainably sourced energy storage solution that is ideally suited for mobile diesel replacement and off-grid power systems.

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

System features

Temperature

The system is air cooled, 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 and standard 8'x5' trailer to deliver 120 kWh of storage.

Long Range (NMC) batteries can be utilised to increase capacity

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Use Cases

Hydrocarbon Replacement

e.g. Diesel genset replacement.

Remote Site Power System

Battery module can be integrated with solar, wind, hydropower and diesel systems to provide a resilient micro-grid power system or be installed standalone for off-grid small power.

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, relocatable energy system

Items	Parameters		
	PowerQub-M-60	PowerQub-M-120	PowerQub-M-160
Type of cell	Lithium Iron Phosphate (LFP)		Nickel Cobalt Manganese (NCM)
Cell parameters	350 V / 176 Ah		360V / 219 Ah
Batt. Charge/Discharge Power	13 kVA	35 kVA	38 kVA
Max. Power Delivery	20 kVA	50 kVA	50 kVA
Max. Continuous Output	29 A	72 A	72 A
Connection system	AC - 3 phase, 4 wire, 50 Hz		
Operation Mode	Off Grid		
Rated capacity	60 kWh	120 kWh	160 kWh
Rated voltage	230/400 V AC		
Voltage tolerance	+10% -6%		
Cooling method	Passive Air Cooling		
Environmental temperature	0°C to 50°C		
Operating temperature	0°C to 60°C		
Cell provider	Tesla		
Noise level	< 65. dB(A)		
Paint system	N/A		
Weight	≈ 1,500 kg	≈ 2,000 kg	≈ 2,000 kg
Monitoring interface	4G or WiFi		
Enclosure type	8’ x 5’ Trailer		
IP grade	IP54		
Dimensions (L x W x H)	2440 x 1520 x 2100 mm		
Protection systems	Overload, Short Circuit, Earth Fault, Overvoltage, Undervoltage, Over Temperature		
Fire systems	Optional: Automated Aerosol Suppressant		

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