

## PRODUCT SPECIFICATION DOCUMENT

# M100 Module

Microgrid battery storage engineered for autonomy



## Resilience built in.

The M 100 is a compact battery storage system designed to serve as the heart of hybrid and off-grid energy systems. With 100 kVA continuous output and 125 kVA surge capacity, it integrates seamlessly with renewables, generators or site loads to provide silent, zero-emission power. It's a plug-and-play solution for microgrids, exploration camps, telecom towers and remote installations.

## Applications

- Remote microgrids and standalone power systems
- Exploration and mining camps
- Telecom and infrastructure support
- Renewable storage and generator hybridisation

## Performance Highlights

- 100 kVA continuous output, 125 kVA surge
- Up to 94% round trip efficiency
- Zero emissions, silent operation
- Supports solar/genset/grid input
- Rugged design for harsh site conditions
- Ideal for 24/7 autonomy in remote locations

## Technical Specifications

Storage	
Battery capacity	188 kWh
Effective capacity	169 kWh
Cell chemistry	LiFePO <sub>4</sub>
Battery management system	Automotive-grade BMS
Power	
Nominal power output	100 kVA
Peak power (10s)	125 kVA
Input power	56 kVA
Recharge time	3 hr @ 58kVA
Round trip efficiency	Up to 94%
Control & Monitoring	
Integrated energy management system	
Real-time telemetry and SOC tracking	
Remote diagnostics and alerts	
Interfaces with solar, grid, generator sources	
Environmental	
Operating temp:	-10°C to +50°C
No diesel spills, fumes or noise	
Compatible with renewable power generation	
Mechanical	
Compact, transportable chassis	
Forklift pockets and lift points	
IP-rated weather protection	