



# 45kVA/45kWh Lithium Battery Energy Storage

Our 45kVA batteries can decrease generator run time, reducing fuel consumption and noise on site. This helps save on fuel costs and reduces emissions, contributing to social responsibility and decarbonisation efforts. Additionally, these batteries can assist in meeting local emission regulations. With variable loads on site, this battery can provide additional resilience and overall energy efficiency.

## KEY DATA

3 Phase Voltage Nominal	415 V
1 Phase Voltage Nominal	240 V

## DIMENSIONS

Length	2.20m
Width	1.10m
Height	1.90m
Weight	1555kg

## ENERGY STORAGE

Technology	Lithium
Type	LiFePO4
Energy Capacity (Nominal)	58kW
Energy Capacity (Usable)	46kW
Charge Time (Minimum)	76 minutes

## Connect

The MEMS telemetry system Connect is our bespoke cloud solution that connects our fleet in the field to our 24-hour control room, ensuring maximum uptime and scalable performance.

In addition to providing our customers with an unparalleled 24-hour monitoring service, MEMS offer round-the-clock live diagnostic information to engineers and technicians in the field.



- Daily health check monitoring
- Not-in-Auto alarms for standby applications
- Internal and external fuel tank monitoring and theft detection
- Advanced SCADA Instrumentation

Connect comes as standard across the entire MEMS fleet.



## PASS THROUGH CURRENT

Automatic Bypass Rating	630A
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## POWER CONNECTORS

Supply Input	Powerlocks
Output	Powerlocks
Maintenance Charge Input	16A 1 Phase

## PERFORMANCE ABSOLUTE MAXIMUM

Real Power Total	36 kW
Real Power One Phase	12 kW
Apparent Power Total	45 kW
Apparent Power One Phase	15 kW
Total Inverter Size	3x15kVA / 45kVA total

## FEATURES

- Equipped with an intelligent energy control module that communicates with the generator
- Designed and assembled to meet MEMS high standards
- Capable of operating in a wide range of ambient temperatures
- Maximum charge current of 36 kW 3 phase

## BENEFITS

- Sustainable product to help reduce your emissions whilst also optimising fuel costs
- Improves reliability by managing variable loads and eliminating light load periods
- Fast installation and plug-and-play compatibility with MEMS Cleaner Options range
- Zero noise operation for noise-sensitive projects

## Introducing



## POWER UP SUSTAINABLY: MAKE THE GREENER CHOICE.

### Hire Clean, Make an Impact: Go Green with Cleaner Options.

At MEMS, we believe that every business has a responsibility to reduce its carbon footprint and actively contribute to a cleaner, healthier planet. That's why we've invested heavily in new technologies and cleaner fuel alternatives through our Cleaner Options. Our team is dedicated to helping you reach your sustainability targets by providing tailored solutions that meet your specific needs and requirements.

### Commitment to Sustainable Innovation: Advancing Clean Energy Solutions for a Better Future

#### STAGE V

##### Low-emission Alternative

Upgrade to our Stage V compliant MEMS range of generators for reduced emissions and low-impact temporary power. Enjoy the same power output and performance with significantly reduced emissions compared to conventional generators. Our Stage V compliant range also offers advanced monitoring and control capabilities, ensuring maximum efficiency and optimal performance for your specific power requirements.

#### HVO

##### A Greener Fuel

MEMS offers hydrotreated vegetable oil (HVO) as a cleaner alternative to traditional diesel fuel. HVO is made from 100% renewable raw materials collected from waste and residues and has the potential to reduce greenhouse gas emissions by up to 90%. The adoption of HVO fuel can make a significant difference in reducing emissions and is a step towards a more sustainable future.

#### LOAD ON DEMAND

##### A Cleaner Solution to Deliver Scalable Power

With MEMS Load on Demand, you can have a reliable power supply that adjusts to your business's changing needs. This smart solution ensures that you only use the power you need, when you need it, reducing your emissions, fuel consumption and costs.



Want to know more? Call 08452 230 400, email [hello@mems.com](mailto:hello@mems.com) or visit [mems.com](http://mems.com)