



- Capability to deliver 7kW peak, 1kW continuous power
- Complete battery replacement unit for material handling equipment
- Plug and play solution: no modifications required to original equipment

**Powering the hydrogen future™ with our outstanding fuel cells and service.**

## IE-LIFT 1

### IE-LIFT fuel cell systems for material handling equipment.

Our IE-LIFT fuel cell battery box replacement meets the needs of 24V material handling equipment (MHE). Using our IE-POWER 1, the IE-LIFT 1 includes hydrogen storage, battery and controller in a 210mm wide package.

IE-LIFT 1 delivers 1kW of continuous power meeting peak loads of up to 7kW through our fuel cell battery hybrid solution. The fuel cell module will recharge the battery on the go, meaning there is no need to plug into a charging point.

The on board hydrogen tank delivers enough energy for a typical shift and can be refuelled in less than 3 minutes, reducing downtime and increasing productivity compared to batteries.

Our systems are designed for ease of integration without modification to the forklift, just disconnect the existing battery, slide it out and replace with the IE-LIFT 1.

IE-LIFT 1 delivers a zero-emission, practical alternative to traditional battery solutions.



|                       |  |                          |
|-----------------------|--|--------------------------|
| <b>Technical data</b> | Nominal Voltage  | 24V                      |
|                       | Nominal Capacity (combined battery and hydrogen store) | 160Ah                    |
|                       | Nominal Energy Content                                 | 6,883Wh                  |
|                       | Operating Temperature                                  | 5°C - 40°C               |
|                       | Relative Humidity                                      | 10% - 90%                |
|                       | IP Rating  | IP20                     |
|                       | Weight   | 225kg                    |
|                       | Dimensions (mm)  | 210(W) x 622(H) x 790(L) |

|             |                       |                                  |
|-------------|-----------------------|----------------------------------|
| <b>Fuel</b> | Fuel Type             | Hydrogen gas                     |
|             | Fuel Capacity         | 264g                             |
|             | Fuel Storage Pressure | nom. 350bar (max 437.5bar)       |
|             | Fuelling Receptacle   | WEH TN1 - SAE J2600              |
|             | Refuelling Time       | <3min                            |
|             | Fuel composition      | 99.9% gaseous hydrogen or better |

|              |                       |                          |
|--------------|-----------------------|--------------------------|
| <b>Other</b> | Status Display        | Front panel screen       |
|              | User Interface        | CAN                      |
|              | Electrical Connection | REMA MRC80 Standard plug |
|              | Emissions             | Water Vapour             |

