Nuvera has developed fuel cell stacks specifically for motive power, proven in demanding conditions both on- and off-road since 2000. The Nuvera® stack, the core of the fuel cell system for fast-fueled electric trucks, is our eighth generation fuel cell stack.

Now part of Hyster-Yale Group, Nuvera combines our hydrogen technology expertise with the know-how of a major industrial truck manufacturer. The result is a line of products built and supported by people who understand the demands of materials handling applications inside and out.

**Performance and efficiency distinguish the power offered by Nuvera.**

The state-of-the-art Nuvera® fuel cell stack features a proprietary design architecture uniquely suited to the demanding needs of materials handling. A rugged metallic cell and open flow field results in high durability, power density, and efficiency.

- **Rugged Metallic Construction**
  Metallic bipolar plates provide superior resistance to shock and vibration in industrial settings. Metallic components have the additional advantages of high-volume manufacturability, and cost effective repair.

- **Remanufacturable & Recyclable**
  Core electrochemical components and individual cells within the stack can be replaced at a fraction of the cost of a new stack. The catalyst can be recovered and recycled.

- **High Power Density**
  A unique open flow field architecture distributes reactants within the fuel cell, resulting in industry-leading power density. This translates into compact, high-efficiency stacks.

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Core Component Design
The Nuvera® fuel cell system is developed around a fuel cell stack designed for motive power by Nuvera and proven in service.

Fuel Cell System Design for Battery Box Replacement
The Nuvera® fuel cell system is engineered to meet the power, weight, and performance requirements of the truck.

Truck Design Know-How
The Nuvera® fuel cell system is built and tested by professionals who understand the demands of materials handling service.
Nuvera® fuel cell systems span a range of truck classes, sizes, and voltage ratings, to repower electric forklifts of many makes and models.

### Seamless Fit
Standard system sizes and electrical connectors make the Nuvera® fuel cell system an easy drop-in battery replacement for electric industrial trucks.

### Fast Refueling
Can fill most lift trucks in as little as three minutes.

### Weight
The Nuvera® fuel cell system meets the weight requirements specified by the truck manufacturer.

### Fuel Storage
Designed when possible to meet or exceed the run-time of the battery being replaced.

#### Maintenance-Friendly 'Engine' System
- Hybrid power system
- Fuel cell stack sub-system
- Fuel cell engine components
- Power electronics
- Thermal management
- Hydrogen storage

#### NUVERA® FUEL CELL SYSTEM SPECIFICATIONS

<table>
<thead>
<tr>
<th>Series</th>
<th>Model</th>
<th>Voltage</th>
<th>Nominal Dimensions X x Y x Z (inches)</th>
<th>Typical Truck</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>C95A-27</td>
<td>48</td>
<td>38.6 x 26.4 x 22.6</td>
<td>1-2 ton DBB</td>
</tr>
<tr>
<td>C</td>
<td>C95A-30</td>
<td>48</td>
<td>38.6 x 29.4 x 22.6</td>
<td>2-3 ton CBB</td>
</tr>
<tr>
<td>C</td>
<td>C95A-33</td>
<td>48</td>
<td>38.6 x 32.2 x 22.6</td>
<td>2-3 ton CBB</td>
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<tr>
<td>C</td>
<td>C95B-36</td>
<td>48</td>
<td>38.6 x 35.6 x 22.6</td>
<td>2-3 ton CBB</td>
</tr>
<tr>
<td>C</td>
<td>C95C-40</td>
<td>48</td>
<td>38.6 x 38.8 x 22.6</td>
<td>2-3 ton CBB</td>
</tr>
<tr>
<td>N</td>
<td>N95A-21</td>
<td>36</td>
<td>38.6 x 20.4 x 30.9</td>
<td>Reach/Order Picker</td>
</tr>
<tr>
<td>M</td>
<td>M55A-13</td>
<td>24</td>
<td>30.9 x 13.0 x 31.1</td>
<td>Pallet Rider</td>
</tr>
</tbody>
</table>

Unless noted otherwise, performance ratings are at standard conditions of temperature at 20°C (68°F) and absolute pressure at 100 kPa (14.5 psi).