

# Performance and efficiency distinguish the power offered by Nuvera.

Nuvera has developed fuel cell stacks specifically for motive power, proven in demanding conditions both on- and off-road since 2000. The Nuvera<sup>®</sup> 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.







### **Core Component Design**

The Nuvera<sup>®</sup> 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<sup>®</sup> fuel cell system is engineered to meet the power, weight, and performance requirements of the truck.



Truck Design Know-How

The Nuvera<sup>®</sup> fuel cell system is built and tested by professionals who understand the demands of materials handling service.

The state-of-the-art Nuvera<sup>®</sup> 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. Nuvera<sup>®</sup> fuel cell systems span a range of truck classes, sizes, and voltage ratings, to repower electric forklifts of many makes and models.

Optimized efficiency with hybrid design

Sea

Fast

Wei

Fue

More power to meet peak operational demands

**M-Series** 

and Truck (Class III) Long runtimes and fast fills Full power over a wide temperature range

# NUVERA® FUEL CELL SYSTEM SPECIFICATIONS

miless Fit lard system sizes and rical connectors make the ra® fuel cell system an easy in battery replacement for ric industrial trucks <b>c Refueling</b> ill most lift trucks in as little as minutes. <b>ght</b> Juvera® fuel cell system meets reight requirements specified e truck manufacturer	r r r r r r r r r r r r r r					
replaced.	for Narrow Aisle (Class II)	Series	Model	Voltage	Nominal Dimensions X x Y x Z (inches)	Typical Truck
		С	C95A-27	48	38.6 x 26.4 x 22.6	1-2 ton DBB
	NUVERA S		C95A-30	48	38.6 x 29.4 x 22.6	2-3 ton CBB
			C95A-33	48	38.6 x 32.2 x 22.6	2-3 ton CBB
			C95B-36	48	38.6 x 35.6 x 22.6	2-3 ton CBB
	X X		C95C-40	48	38.6 x 38.8 x 22.6	2-3 ton CBB

N95A-21

M55A-13

36

24

Ν

Μ

38.6 x 20.4 x 30.9

30.9 x 13.0 x 31.1

Reach/Order Picker

Pallet Rider

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

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