

# Customizable Fuel Cell Stack Components For Diverse Applications

Item Number: FCS



## Introduction

Introducing the FS Fuel Cell Stack Components. This modular assembly is designed for ease of use and offers reliable performance for various electrochemical applications, particularly in hydrogen fuel cell research and development, and educational settings.

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| Component / Feature                           | Description                                                                                                                                               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEA Active Area                               | 3.2 cm x 3.2 cm (10 cm²)                                                                                                                                  |
| MEA Membrane Area                             | 5.3 cm x 5.3 cm                                                                                                                                           |
| Graphite Plate Overall Dimensions (L x W x D) | 6.3 cm x 6.3 cm x 0.4 cm                                                                                                                                  |
| Assembly Structure                            | Exploded view illustrating layers: Plastic Endplate Assembly, O-Rings, Current Collector Plate, Guide Dowels, Graphite Anode End Plate, PTFE Gaskets, MEA |
| Material Properties                           | Acid and Alkali Resistant, Durable, High-Quality                                                                                                          |
| Manufacturing Capability                      | Precision Production, Custom from Prototype to Volume                                                                                                     |
| Customization                                 | Tailored manufacturing services available                                                                                                                 |

| FS Performance                  | 1 Cell       | 5 Cell   | 10 Cell  | 15 Cell   | 20 Cell   |
|---------------------------------|--------------|----------|----------|-----------|-----------|
| Nominal Output Power (Watts)*   | 0.25 to 0.35 | 3 to 3.5 | 6 to 7   | 9 to 11.5 | 12 to 14  |
| Nominal Operating Voltage (V)** | 0.45 to 0.6  | 2.3 to 3 | 4.6 to 6 | 7 to 9    | 9.5 to 12 |
| Hydrogen Consumption (cc/min)   | 10.6         | 53       | 106      | 162       | 400       |