

Excellent handling property

MS-SOFC^{※1}

※1 Metal Supported - Solid Oxide Fuel Cell

Overview

- Electrolyte thickness reduced to less than half conventional thickness using our MLCC thin film technology.^{※2}
- MS-SOFC cells are produced using metal and ceramic co-sintering technology.

※2 Comparison with common anode-supported cells(Our estimated value)

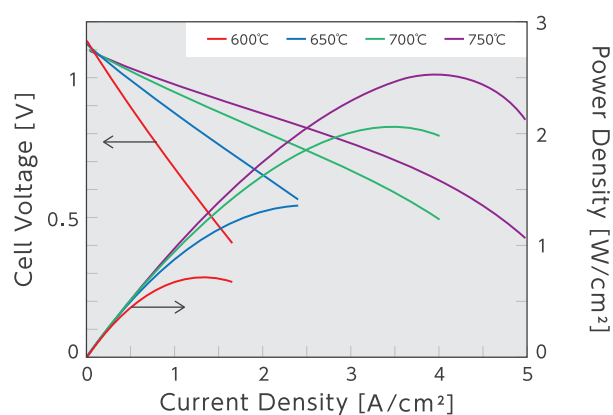
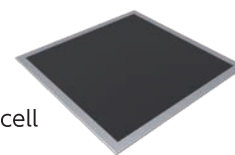
Advantages

- **[Handling property]** Hard to break. High toughness.
- **[High performance]** Achieves high power generation characteristics at 600 to 750°C
- **[Customizable]** Can be manufactured up to 100 x 100 mm

Φ30mm coin cell



□100mm cell



	600 [°C]	650 [°C]	700 [°C]	750 [°C]
Theoretical OCV[V]	1.163	1.156	1.149	1.142
Measured OCV ^{※3} [V]	1.154	1.146	1.139	1.130
Loss [%]	0.7	0.9	0.9	1.1

※3 OCV: Open Circuit Voltage
The above values are not guaranteed.

Applications

- Portable Power Generator



- Stationary power source



- Power source for mobility solution



- Hydrogen production (SOEC^{※4})



※4 Solid Oxide Electrolysis Cell