

# VERMES

••••• SOC TECHNOLOGY



SOC Cell

- Solide Oxide Cells operatable in fuel cell, electrolyser or reversible mode
- Fuel electrode supported cell technology



SOC Stack

- 600 - 800°C
- 1.5kW @ SOFC, 700°C
- 5.0kW @ SOEC, 700°C
- 166 L x 124 W x 193 H mm
- Internal or external manifold



SOC Stack Module

- 10kW (SOFC) stack module
- Specifiable for individual applications

NEW ENERGY SOLUTIONS  
FOR ENVIRONMENTAL PROTECTION

## Advantages of SOC Technology

VERMES SOC Technology assist our customers to achieve optimal green energy solutions.

### SOFC:

- Electrochemical reactions @650-850°C (no noble metal, no vibrations, no noise)
- Eco-friendly
- High electric efficiency >60%, even in small systems
- High quality waste heat, CHP efficiency >90%
- Fuel flexibility (natural gas, biogas, syngas, H<sub>2</sub>, diesel, methanol, etc.)

### SOEC:

- Less electric energy required
- Electric efficiency >100% possible (with external heat supplied)
- CO<sub>2</sub>-, Co-electrolysis possible
- Syngas production

Please contact us for an individual discussion on your application requirements:

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