Solution Datasheet:
HyKangoo by SymbioFCell

Light Duty EV with a Fuel Cell Range Extender

Hybrid light duty vehicle
• Benefit from the advantages of an electric vehicle without the limitations of battery-based only power systems
• Based on a Renault Kangoo ZE, the HyKangoo delivers the promise of an efficient low carbon vehicle

Key Benefits
• Doubles the vehicle’s range
• Zero carbon emission
• Low noise pollution
• Full Payload
• Remote diagnostics

Specifications subject to change without notice.
## HyKangoo ZE with Fuel Cell Range Extender

### Vehicle Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Type</td>
<td>Renault Kangoo ZE Light commercial vehicle</td>
</tr>
<tr>
<td>Power system</td>
<td>Renault Kangoo Vehicle System Power Electronics</td>
</tr>
<tr>
<td>Overall length</td>
<td>4.123 mm</td>
</tr>
<tr>
<td>Width excluding/including wing mirrors</td>
<td>1829 mm / 2133 mm</td>
</tr>
<tr>
<td>Engine output</td>
<td>44 kW (70hp)</td>
</tr>
<tr>
<td>Torque</td>
<td>226 Nm</td>
</tr>
<tr>
<td>Top speed (electronic governor)</td>
<td>81 mph</td>
</tr>
<tr>
<td>Battery Range</td>
<td>100 miles (NEDC combined cycle)</td>
</tr>
<tr>
<td>Hydrogen Range</td>
<td>200 miles</td>
</tr>
<tr>
<td>Number of seats</td>
<td>2</td>
</tr>
<tr>
<td>Payload</td>
<td>550 kg</td>
</tr>
<tr>
<td>Carrying capacity</td>
<td>4.5 m³</td>
</tr>
<tr>
<td>Tyres</td>
<td>Low rolling resistance</td>
</tr>
</tbody>
</table>

### Vehicle main features

- ABS with EBD (Electronic Brake Distribution, Black flooring in cab area, Driver’s airbag, Front seatbelts with pretensioners and load limiters, Tubular Bulkhead, Height adjustable steering wheel, Lights-on warning sound, ‘Titanium’ upholstery, Unglazed 180° asymmetric rear doors, 6 mounted load anchorage points, Front and rear disc brakes, Left side loading door - unglazed.

### Vehicle specific features

- Pre-heating/pre-ventilation in the cabin, Electric wing mirrors with temperature sensor, Z.E. dashboard, Z.E. onboard computer, Standard recharging socket (10-14A), Standard charging cord without integrated EVSE system, Manual air conditioning, Cruise control with speed limiter, Carminat TomTom satellite navigation system, Rear parking sensors, Front passenger airbag, Front fog lights, Folding passenger seat, Additional side anchorage points in load area.

### Main options available

- Manual air conditioning, Cruise control with speed limiter, Carminat TomTom satellite navigation system, Rear parking sensors, Front passenger airbag, Front fog lights, Folding passenger seat, Additional side anchorage points in load area.

### Battery recharging

- Wall Box (Intelligent and secured recharging device)

### H₂ Range Extender

#### SymbioFCell RE FC System

- ALPS® 5 kW FC stack, Air loop and H₂ loop systems, Electronic DC/DC converter, control command system, CAN/Ethernet/WiFi/3G supervision and management systems, 74l hydrogen tank 20 years service lifetime guaranteed, 35 mpa, EC79-2009 and SAE J2600 standard compliant.

### Fuel (2)

#### Hydrogen storage capacity

- 1.72 kg

#### H₂ Quality


---

(1) Vary according to customer specifications
(2) Vary according to the application power cycle and environment.

---

**Solution Datasheet:**

**HyKangoo by SymbioFCell**

---

**Specifications subject to change without notice.**