

Solution Datasheet:

HyKangoo by SymbioFCell

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



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HyKangoo ZE with Fuel Cell Range Extender		Specifications & Features
Vehicle Specifications	Vehicle Type	Renault Kangoo ZE Light commercial vehicle
	Power system	Renault Kangoo Vehicle System Power Electronics
	Overall length	4.123 mm
	Width excluding/including wing mirrors	1829 mm / 2133 mm
	Engine output	44 kW (70hp)
	Torque	226 Nm
	Top speed (electronic governor)	81 mph
	Battery Range	100 miles (NEDC combined cycle)
	Hydrogen Range	200 miles
	Number of seats	2
	Payload	550 kg
	Carrying capacity	4,5 m3
	Tyres	Low rolling resistance
	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
	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)
H ₂ Range Extender	SymbioFCell RE FC System	ALP10 5 kW FC stack, Air loop and H ₂ 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	1,6 kg-H ₂ 350 bar / 2,7 kg-H ₂ 700 bar
	H ₂ Quality	ISO/TS 14687-2:2008

(1) Vary according to customer specifications

(2) Vary according to the application power cycle and environment



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Specifications subject to change without notice.