STARBUS - FUEL CELL (HYDROGEN) CONCEPT

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Bus	LPO 1625 Hydrogen Fuel cell bus
Seating capacity	30
Fuel Cell Power System	Hydrogen Fuel cell
Fuel Cell Gross peak power	114 HP
Air Compressor for fuel cell	Single stage twin screw type
Fuel System	Roof mounted hydrogen cylinders 4 nos - 205 L capacity each
Total Useful amount of fuel	14.5 kg
Electric Propulsion Motor	2 Rear - AC Induction motors with summation gearbox
Peak power output of motor	250 HP
Rated speed	Ideal - 600 rpm ; Max - 2100 rpm
Rated Torque	1050 Nm at 800 rpm
Enerygy Storage system	Li - Ion batery
Steering	Hydraulic Power Steering
Suspension	Pneumatic Suspension & hydraulic double acting telescopic type shock absorber at front and rear
Brakes	Full Air Dual circuit SCAM with ABS
Tyres	11 R 22.5 Radial Tubeless; 7 nos
Electrical System	System Voltage - 24 V DC; Battery - 2 x 12V, 150 Ah; Alternator - 75 Amps
MAX SPEED	70 kmph
GRADEABILITY	17%
Wheel Base	6300 mm
Body Dimension	12000 mm x 2600 mm x 3500 mm
Floor Height	390 mm

FEATURES

• Hydrogen fuelled; Hydrogen storage in compressed form • Composite type III hydrogen storage container • AC Induction traction motor and motor controller • Regeneration of power during recuperation • Zero emission • Completely noiseless operation • Most efficient energy conversion

VEHICLE HIGHLIGHTS

• Ramp Facility • Pneumatic Door Operation • Climate Control • Continental Instrument Cluster and Cabin Controls