

What a great time for electrical vehicles

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Vision

"To be able to offer reliable, turn-key drive train solutions in the rapidly growing market of hybrid- and electric vehicles, is the key to success" "The world is changing fast, faster then most car manufacturers dare to predict. We invited everybody who is interested in starting (or already working on) the development, production and sales of electric cars to contact us and see what solutions Evisol has to offer."

Godfried Puts
C.E.O. | Evisol



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ThoRR Technical Information

Specifications

Motor

- Type: Siemens 1PV5135WS28 3 Phase Induction Motor
- Number of Poles: 4
- Continuous Power: 67 kW – 91 hp
- Maximum Power: 200 kW – 272 hp
- Continuous Torque: 160 Nm
- Maximum Torque: 450 Nm
- RPM Range: 0 – 10.000
- Cooling: Water/Glycol
- Weight: 86 kg

Inverter

- Type: Evisol EVI-200
- Nominal Voltage: 750 VDC
- Maximum Voltage: 900 VDC
- Maximum Output Current: 350 Arms
- Continuous Output Current: 300 Arms @ 4kHz switching frequency
- Maximum DC Input Current: 350 A
- Switching Frequency: 2-8 kHz
- Powerstage: Semikron Skiiip 3 Integrated IGBT Module
- Phases: 3
- Cooling: Water/Glycol
- Weight: 24 kg

Battery System

- Cell Type: Kokam Lithium Polymer
- Nominal Cell Voltage: 3,7 VDC
- Capacity: 40 Ah
- Continuous Current: 10C
- Number of Cells: 196
- Total Battery Capacity: 29 kWh @ 100% DOD
- Cycle Life: > 1200 @ 80% DOD
- End of Specified Life: 80% of Original Capacity
- On Board Charger Type: Evisol EVMC-30
- Charger Output Power: 30 W
- Power Factor: > 0.99 @ 30 W output power
- Number of Chargers: 196
- Power Requirements: 3 x 1 Phase, 110 – 240 VAC, 50 – 60 Hz, > 6 kW
- Battery Management System: Cell Charging with EVMC-30. Communication with EVI-200
- Features BMS on Cell Level: SOC, SOH, Temperature, Voltage, Charge Current, Discharge Current, Cell Connections, Fault Indication, User-Interface
- Battery Modules: 14 Cell Modules of 14 Cells, Max. Module Voltage < 60 VDC
- Security System: 14 Normally Open (NO) module contactors, 2 NO Main contactors, Opening of Module Contactors @ Inverter Switch Off, @ Opening of Battery Boxes, @ Crash or Roll Over
- Battery Housing: 4 Dedicated Air Cooled Boxes
- Cooling: Regulated Forced Air Cooling
- Weight battery system: 280 kg

Final drive

- Rear Wheel Drive
- Direct Drive, no gearbox
- Differential: Ford Sierra 1 : 3,92

Chassis

- Type: Tubular Space Frame From MK Sports Cars UK (60kg)

Suspension

- Front: Adjustable Double Wishbone
- Rear: Adjustable Double Wishbone
- Spring / Shock Absorber: Adjustable

Geometry

- Wheelbase: 2373 mm
- Front Track: 1451 mm
- Rear Track: 1472 mm
- Maximum Height: 111 cm (Roll Bar)
- Minimum Ground Clearance: 54 mm (Flat Ground Plate)

Steering

- Rack and Pinion: 2,7 turns lock to lock

Vehicle Weight

- Total Vehicle Weight: 755 kg

Wheels and Tyres

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ThoRR is an Evisol product. Evisol is specialized in developing, manufacturing and selling of high-end, highly reliable, drive solutions for hybrid- and full electric vehicles and boats. For further information visit our site.

www.evisol.com

- Wheel: Aluminium Alloy 6J X 15"
- Tyre: Toyo Proxes 195 / 50 R15

Direct Emissions

- CO2: 0 gr / km
- NOx: 0 gr / km
- Particles: 0 gr / km

Range

- Range New European Driving Cycle: 200 km
- Range @ 120 km/h: 140 km
- Range @ 80 km/h: 230 km

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