



Trolleybus
ŠKODA 27Tr Solaris

Three-axle 18 m length low-floor trolleybus

• Length	18 000 mm
• Width	2 550 mm
• Height incl. lowered poles	3 450 mm
• Outer turning circle diameter	11 500 mm
• Inner turning circle diameter	5 000 mm
• Ramp clearance front/rest	7° / 7°
• Curb weight	16 500 kg

• Total passenger capacity	160
• Seats	50 + 1

• Type of bus body	Solaris Bus&Coach
• Front axle	ZF RL85A (rigid portal)
• Middle axle	ZF AVN 132 portal
• Rear axle (driving)	ZF AV 132 rigid
• Total gear ratio	11,47
• Suspension	pneumatic

Electrical equipment

Technical interests:

- IGBT technology
- Asynchronous drive, maintenance-free
- 4 quadrant service (drive and brake)
- Energy recuperation during braking (15%-30%)
- Continuous regulation of moments until zero speed
- Comfort diagnostic system
- Operation on both trolley polarities
- Possible operation on lower power supply

Roof container SJ 4.1

- Nominal output power of main traction inverter 225 kVA
- Nominal output power of auxiliary inverter 10 kVA
- Nominal current of board 24V battery charger 220 A
- „Double“ electrical insulation inside container
- Protection Classification IP 55
- Cooling AF (air, forced)

Traction motor

- Asynchronous traction motor SKODA 33 ML 3550 K/4
- Nominal power 240 – 260 kW
- Cooling external
- Insulation class 200

Collectors

- Manual TSS 5.3, Lekov
- Semiautomatic TSS 2.5, TSS 10.1, Lekov

Heating

- Water, with electric boiler, double insulation

Compressor

- Hydrovane TA6, Compair, single-stage rotary multi-plate

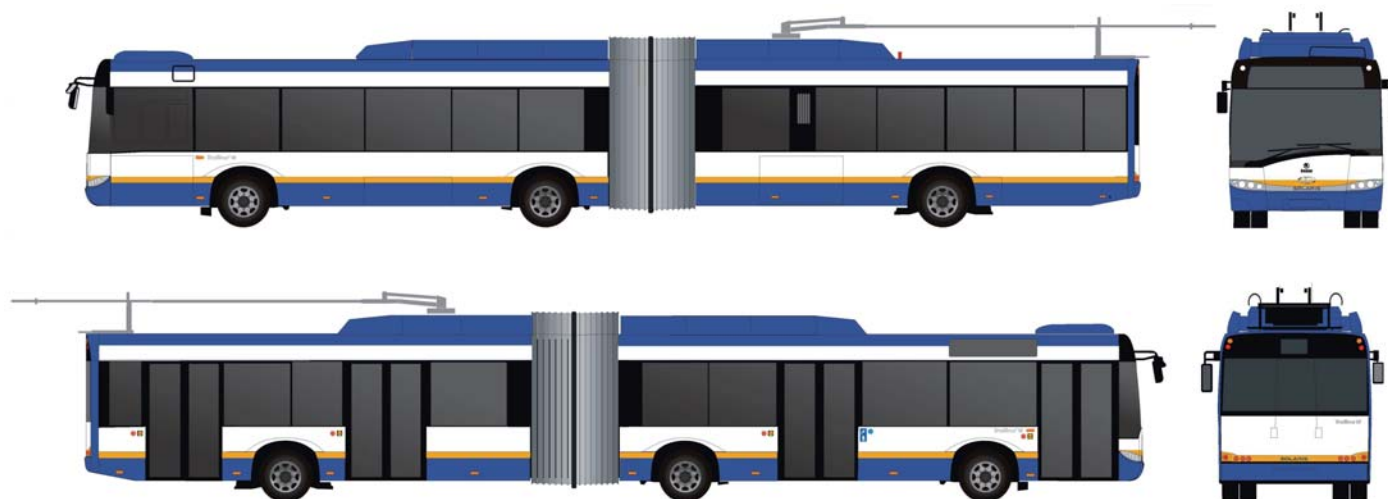
Options:

Diesel-electric generator

- Air pollution EURO 5
- Nominal power 100 kW/175 kW
- Generator with permanent magnets

Air-Conditioning

- For driver
- For passengers



ŠKODA ELECTRIC a.s.

Tylova 1/57 | 301 28 Pilsen | Czech Republic
 Phone.: +420 37 818 1155 | Fax.: +420 37 818 1452
 E-mail: electric@skoda.cz
 www.skoda.cz