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METELITSA TRAM WAGON, MODEL B85600M

Transport Concession Company , St. Petersburg

In August 2016, Stadler Minsk and Transport Concession Company, TCC concluded a contract for the delivery of 23 Metelitsa bidirectional articulated passenger tram wagons, model B85600M, with 100% low floor, for the realisation of the project “Construction and exploitation of the tram line in the Krasnogvardeysk district of St. Petersburg”. This order is scheduled to be realised within two years; the delivery of the first tram wagon is expected in mid-July 2017. Delivery will take place in three stages: The first stage includes 7 tram wagons, the second stage 6 tram wagons and the third stage 10 tram wagons. The Metelitsa tram wagon model B85600M is a three-section tram with a 2 + 2 seat arrangement and an extended middle section. It is 34 metres long, has a capacity of 370 persons (8 persons per square metre) and 66 seats. The warranty period for the tram wagons is three years. Furthermore, a conclusion of a separate contract for servicing during five years is possible (full service), which includes active support of the customer by the supplier regarding layout and organisation of the depot for tram service and maintenance. The contract also covers training of drivers, instructors and maintenance specialists as well as the supply of warranty parts and materials.

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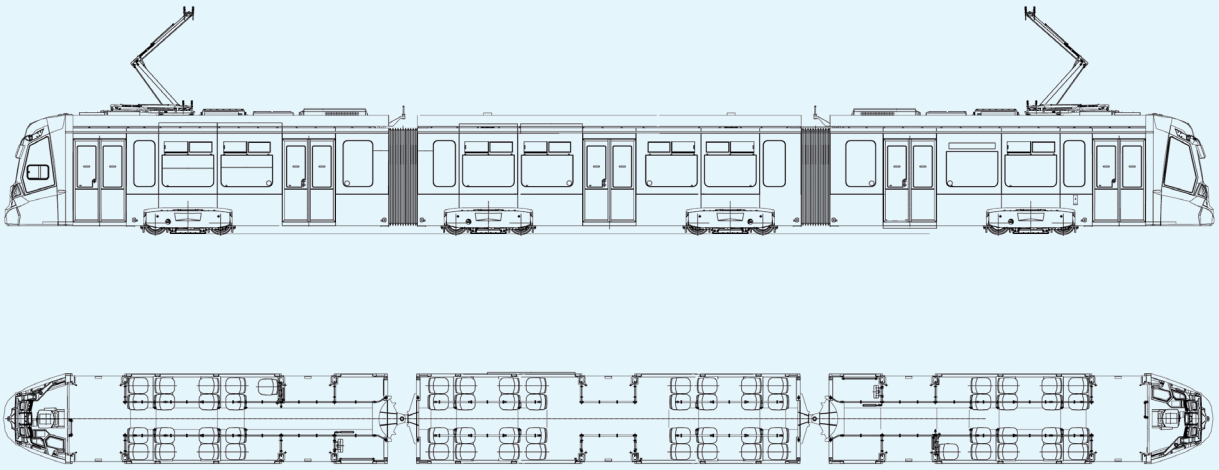

Technical features

Technology

- Easy-to-change external front and side panels of the driver's cab made of fibreglass
- Easy-to-change external cover panels made of aluminium
- Anti-corrosive treatment of the car body, sound-absorbing cover, including interiors
- Climate control system for the compartment and driver's cab with automatic temperature control
- Tractive converter based on IGBT transistors with the option of traction electric drive control

Comfort

- Airy, bright and clear interior design adaptable to customer requirements
- Excellent overview of the entire passenger compartment thanks to wide corridor connections and 100% low floor
- Interior formed panels made of easy-to-change fibreglass panels in light saturated colours
- 5 folding doors per side with electric control and anti-squeeze system

Personnel

- Driver's seat with electric heating and positioning regulation
- Display, video monitoring, storage and readout of data created during tram operation and control
- Anti-sun screen in the driver's cab

Reliability / Availability / Maintainability / Safety

- Video surveillance system
- Compartment is equipped with separate spots and fastenings for fire-extinguishers
- Cases and covers of all the electric equipment have an IP rating of no less than 55 and a reliable anti-corrosive covering

Vehicle data

Customer	TCC
Order	23 trams
City of operation	St. Petersburg
Start of service	2017
Track gauge	1524 mm
Line voltage	400–720 V
Direction	Bidirectional
Number of sections	3
Axle arrangement	Bo-Bo-Bo-Bo
Number of seats	66
Passenger capacity (5 pers./m², seats + standing room)	256
Passenger capacity (8 pers./m², seats + standing room)	370
Low floor	100 %
Clear door width	1300 mm
Number of doors per side	5
Vehicle length	33450 mm
Vehicle body width	2500 mm
Height	3570 mm
Wheel base in bogie	1800 mm
Wheel diameter	
new	610 mm
worn	530 mm
Continuous output at wheel	65 kW
Maximum output at wheel	70 × 8 = 560 kW
Starting tractive effort	120 kN
Maximum acceleration, empty	1.5 m/s²
Maximum speed	75 km/h
Sander, heated container	12
Offline on-the-straight running of empty tram wagon, not less	500 m