



S200 SF Light Rail Vehicle

San Francisco, California



State-of-the-Art Features And Benefits

Connecting San Francisco's unique neighborhoods, Siemens' new S200 SF high floor vehicles make travel easy, reliable and accessible. At 50 miles per hour and with the ability to operate in multiple vehicle consists, the S200 SF is there to help connect the great places throughout San Francisco.

The S200 SF is a hybrid creation, combining the best elements from both of our successful high-floor and low-floor light rail platforms – which have over 1,300 units currently in operation. With an environmentally-friendly focus, the S200 SF vehicles have utilized a strong lightweight design to ensure low energy consumption and minimum operating costs.

Reliability

- Proven success: Siemens' active fleet of high-floor light rail vehicles in the U.S. vastly exceeds specified reliability targets
- Features a state-of-the-art Siemens IGBT propulsion system with field-tested performance in hundreds of vehicles

Efficiency

- Smart HVAC controls save energy and reduce operating costs
- Energy efficient, long-lasting LED lighting for interior and exterior

- Electrodynamic braking to zero-speed reduces brake pad usage and life cycle cost

Safety

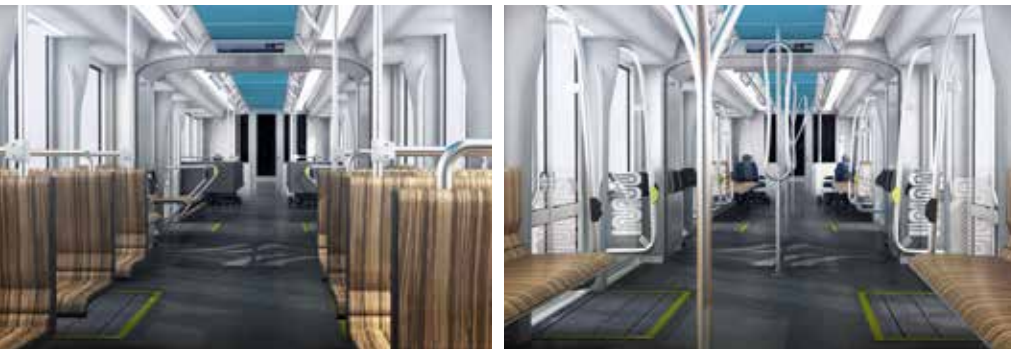
- On-board safety is maximized with a carbody design-focus on crash worthiness and operator protection
- Superior visibility for operator ensures enhanced safety and protection for pedestrians and cyclists
- Hydraulic brakes have the fastest reaction time possible and a shorter brake distance ideal for street-running vehicles

Performance and Capacity

Maximum operational speed	50 mph	80.5 km/h
Maximum allowable speed	55 mph	88.5 km/h
Service acceleration and deceleration	3.0 mph/s	1.34 m/s ²
Emergency braking rate	5.0 mph/s	2.24 m/s ²
Passenger capacity	60 seats	
	Approx. 203 total passengers @ 6 p/m ²	
	4 wheelchair spaces or bicycle areas	
Maximum operational gradient	9%	
Motor power rating	174 hp x 4	130 kW x 4
Catenary supply voltage	600 Vdc	

Vehicle Dimensions and Weight

Length over coupler	75 ft	22860 mm
Width	104.32 in	2650 mm
Height with pantograph (locked down)	11 ft 6 in	3505 mm
Maximum pantograph height	up to 19 ft	5791 mm
Vehicle empty weight	78,770 lbs (AW0)	35730 kg
Entrance height	34 in	864 mm
Minimum turning radius	42 ft 7 in	13 m
Vertical curve, crest	310 ft	94.5 m
Vertical curve, sag	460 ft	140.2 m
Track gauge	4.7 ft	1435 mm
Wheel base	6.2 ft (power trucks)	1900 mm (power trucks)
	6.2 ft (center truck)	1900 mm (center truck)



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