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Ingenuity for life



S200 SF Light Rail Vehicle

San Francisco, California

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 performing at high reliability. With an environmentally-friendly focus, the S200 SF vehicles have utilized a strong lightweight design to ensure low energy consumption and minimum operating costs. The S200 SF is a steel carbody construction, fully bidirectional, single articulated, high-floor vehicle – ideal for high platform operation and built in the U.S.

To provide operators a safe and comfortable work environment the operators cab features large side windows, a wrap-around console for improved ergonomics and an operator's seat positioned on the vehicle's centerline for increased visibility.

A full-width polycarbonate transparent partition provides over 300° of visibility for the operator and enhanced safety and protection for pedestrians and cyclists.

The S200 SF is especially energy-efficient. The light-weight drive system

recuperates braking energy, and the electrodynamic braking to zero-speed reduces brake pad usage and life cycle cost. The LED lighting system uses up to 40 percent less electricity than standard incandescent and fluorescent lighting. And the smart HVAC controls save energy and reduce operating costs.

Performance and Capacity

Maximum operational speed	50 mph	80.5 km/h
Maximum allowable speed	55 mph	88.5 km/h
Service acceleration	3.0 mph/s	1.34 m/s ²
Service deceleration	3.5 mph/s	1.56 m/s ²
Emergency braking rate	5.0 mph/s	2.24 m/s ²
Passenger capacity	60 seats Approx. 193 total passengers @ 6 p/m ² 4 wheelchair spaces	
Maximum operational gradient	10%	
Motor power rating	174 hp x 4	130 kW x 4
Catenary supply voltage	600 Vdc	



The S200 SF comes with an advanced passenger information system that includes operator and automated announcements; passenger-operator intercoms, electronic destination signs; and a surveillance system for improved passenger safety.

Integrated ATCS operation with full ATO on sections of the Muni alignment.

The S200 SF LRV is electrically powered from an overhead wire system (catenary) and for San Francisco operates at speeds up to 50 mph, carrying close to 192 passengers in each vehicle with the ability to operate



in multiple vehicle consists (up to four). The S200 SF removes automobiles off the road in turn helping cities decrease their CO₂ emissions.

In 2013 Americans took 10.7 billion trips on public transportation, which

is the highest annual public transit ridership number in 57 years, according to a report released by America Public Transportation (APTA) in March 2014.



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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	76,000 lbs (AW0)	34473 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)