

Los Angeles P2000 Light Rail Vehicle



General Vehicle Configuration

- Bi-directional six-axle, single articulated light rail vehicle constructed of low alloy high tensile (LAHT) steel, with pneumatic suspension suitable for high speed, high-platform operation.
- Large frame-less windows provide excellent visibility and add to the aesthetic appearance of the vehicle. Vehicle heating and air-conditioning equipment allows for year-round passenger comfort. Seating is primarily knee-to-back.
- Eight platform-pocket doors allow easy access to all passengers.
- Modern passenger information system consisting of automated announcements, public address, passenger-operator intercom and electronic destination signs.
- Each vehicle is equipped with train-wayside communication (TWC) equipment and automatic train protection (ATP) equipment.
- Propulsion is provided by a AC-GTO system, with four motors per car, pulse controlled inverter and microprocessor vehicle control logic. Electro-pneumatic friction braking is provided.

Siemens Transportation Systems, Inc.

Rolling Stock

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Performance and Capacity - LA

•	Maximum operational speed:	70 mph	113 km/h
•	Service acceleration:	3.0 mphps	1.35 m/s ²
•	Service deceleration:	3.5 mphps	1.55 m/s ²
•	Emergency braking rate:	5.2 mphps	2.32 m/s ²
•	Passenger capacity:	76 seated 100 standing	
•	Maximum operational gradient:	6%	
•	Motor power rating:	185 hp	4 x 138 kW
•	Catenary supply voltage:	750 Vdc	

Vehicle Dimensions and Weight

•	Length over coupler:	89.5 ft	27142 mm
•	Width:	8.7 ft	2650 mm
•	Height without pantograph:	12.3 ft	3760 mm
•	Vehicle empty weight:	98,000 lbs	44452 kg
•	Floor height above TOR:	3.2 ft	975 mm
•	Minimum turning radius:	85 ft horizontal curve	25 m
		1640 ft vertical curve, crest	500 m
		1640 ft vertical curve, sag	500 m
•	Track gauge:	4.7 ft	1435 mm
•	Wheel base:	6.9 ft	2100 mm