

Puerto Rico (Tren Urbano) Heavy Rail Vehicle



General Vehicle Configuration

- Stream-lined modern metro-type rail vehicle constructed of stainless steel with fiberglass front masks and configured to operate in married pairs.
- Integrated roof-mounted air conditioning system designed to accommodate local climatic conditions. Extra-wide cantilevered seats allow for a very comfortable ride. Seating is primarily knee-to-back.
- Six wide double-leaf pocket doors allow for rapid and easy boarding, and two wheel chair parking areas are provided in each car.
- Modern passenger information system consisting of automated visual and audio announcements, public address, passenger-operator intercom and electronic destination signs.
- The automatic train control (ATC) system provides the highest level of passenger safety.
- Vehicle equipped with a diagnostics health monitor that delivers local fault specific information to the operator for major systems.
- Propulsion is provided by a modern, state-of-the-art AC-IGBT system, with four motors per car, pulse controlled inverter and microprocessor vehicle control logic. Pneumatic suspension and braking is provided.

Siemens Transportation Systems, Inc.

Rolling Stock

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Performance and Capacity

•	Maximum operational speed:	100 km/h	60 mph
•	Service acceleration and deceleration:	1.35 m/s ²	3.0 mphps
•	Emergency braking rate:	1.55 m/s ²	3.5 mphps
•	Passenger capacity:	72 seated	
•		168 standing	
•	Maximum gradient:	6%	
•	Motor power rating:	125 kW	167 HP
•	Catenary supply voltage:	750 Vdc	

Vehicle Dimensions and Weight

•	Length over coupler:	23.0 m	75.5 ft
•	Width:	3203 mm	10.6 ft
•	Height:	3810 mm	12.5 ft
•	Vehicle empty weight:	39.5 t	87,082 lbs
•	Floor height above TOR:	1100 mm maximum	3.61 ft
•	Minimum turning radius:	80m horizontal curve	262 ft
		900 m vertical curve, crest	2953 ft
		900 m vertical curve, sag	2953 ft
•	Track gauge:	1435 mm	4-8.5 ft
•	Wheel base:	2400 mm	7.9 ft

