



SD660 Light Rail Vehicle

Portland, OR

- Bi-directional six-axle, low-floor articulated light rail vehicle constructed of low alloy high tensile (LAHT) steel.
- Low floor area comprises 70% of the interior and extends between the end trucks through the articulated center section.
- Modern, spacious interior ensuring maximum visibility and safety. Passenger interior air conditioning and heating to accommodate to local climatic conditions. Seating is primarily knee-to-back.
- Eight passenger sliding plug doorways, four per side directly across from one another and located in the low floor area. Four doorways equipped with automatic movable bridge-plates meeting the requirements of the Americans with Disabilities Act (ADA).
- 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 modern, state-of-the-art AC-IGBT system, with four motors per vehicle, pulse controlled inverters and microprocessor vehicle control logic.
- Dynamic and hydraulic friction brakes are provided, as well as track brakes.

Performance and Capacity			
Maximum operational speed:	55 mph	88.5	km/h
Service acceleration and deceleration:	3.0 mph/s	1.35	m/s ²
Emergency braking rate: (max. average deceleration)	5.0 mph/s	2.23	m/s ²
Passenger Capacity:	64 seated with 4 spaces for wheelchairs & 4 bicycle racks 204 standing - for a total of 268 at AW4		
Maximum gradient:	7%		
Motor power rating:	4 x 175 kW	235	hp
Catenary supply voltage:	750 Vdc Nominal		
Vehicle Dimensions and Weight			
Length over coupler:	91.93 ft	28020	mm
Width:	8.71 ft	2654	mm
Operating height with pantograph:	13.0 - 22.3 ft	3960 - 6790	mm
Vehicle empty weight:	108,000 lbs	49	t
High floor section above TOR:	3.22 ft	980	mm
Low floor section above TOR:	1.18 ft	359	mm
Minimum turning radius:	82.02 ft horizontal curve	25	m
	820 ft vertical curve, crest	250	m
	1150 ft vertical curve, sag	350	m
Track gauge:	4.71 ft	1435	mm
Wheel base:	5.90 ft Center/Power Truck	1800	mm

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