



SD460 Light Rail Vehicle

St. Louis, MO

- Bi-directional six-axle, single articulated high speed, light rail vehicle constructed of low alloy high tensile (LAHT) steel with pneumatic suspension, suitable for high platform operation.
- Large windows provide excellent visibility for passengers. High capacity heating and air conditioning equipment allows passengers year round comfort. Seating is primarily knee-to-back.
- Eight platform-level bi-folding doors allowing easier passenger access. Two low-level bi-folding doors for emergency exit.
- Passenger information system consisting of public address, passenger-operator intercom and roller curtain 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 traction motors per car, pulse controlled inverters and microprocessor vehicle control logic.
- Dynamic and pneumatic friction brakes are provided, as well as track brakes.

Performance and Capacity

Maximum operational speed:	65 mph	105 km/h
Service acceleration and deceleration:	3.0 mph/s	1.34 m/s ²
Emergency Braking Rate:	5.7 mph/s	2.55 m/s ²
Passenger Capacity:	72 seated	106 standing
Maximum Gradient:	7%	
Motor Power Rating:	4 x 140 kW	188 hp
Catenary supply voltage:	750 Vdc	

Vehicle Dimensions and Weight

Length over coupler:	89.44 ft	27264 mm
Width:	8.71 ft	2654 mm
Height with pantograph:	12.5 ft	3800 mm
Vehicle empty weight:	92,500 lbs	42 t
Floor Height above TOR:	3.30 ft	1006 mm
Minimum turning radius:	82.02 ft horizontal curve	25 m
	750 ft vertical curve, crest	228.6 m
	750 ft vertical curve, sag	228.6 m
Track Gauge:	4.71 ft	1435 mm
Wheel Base:	6.89 ft	2100 mm

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