



A large and spacious 70% low-floor LRV specifically designed for Seattle's riding public. This 95 foot long LRV incorporates specialized features including multiple bicycle racks and extra ADA areas.

This LRV is capable of operating in trains up to four cars and utilizes 1500 Vdc traction power for fewer substations.

Formation:
6 - Axle Articulating

Track Gauge:
4ft – 8.5in / 1435mm

Electric System:
1500 Vdc
Overhead Catenary
System



Seattle - Sound Transit	
General	
Manufacturer	KINKISHARYO International
Quantity	35/27
Yr. Delivered (Last)	2009/2014
Body Type	6-axle articulating
Empty Weight	102000 lbs (46266 kg)
Seats	74 passengers
Minimum Radius	82 ft (25 m)
Voltage (VDC)	1500
Maximum Speed (Balance)	58 mph (93 kph)
Full Acceleration	3.0 mphps (1.34 m/s ²)
Deceleration, Service	3.0 mphps (1.34 m/s ²)
High/Low Platform	Low
ADA Accessibility	Level boarding
Maximum Cars to Train Line	4 in revenue & 8 for emergency moves
Noise Level at 40 mph & 50 Ft	75 dBA
Carbody	
Manufacturer	Kinki Sharyo Co. Ltd.
Material	LAHT
Buff Load (Lbs)	204,000 - 2g
Length (Over Coupler Faces)	95 ft (28956 mm)
Width	8.7 ft (2654 mm)
Height	12.29 ft (3746 mm)
Ceiling Height	8.21 ft (2502 mm)
Floor Height (TOR)	Low floor 14 in (355 mm)
Floor Construction/Covering	High floor 36 in (914 mm)
Passed ASTM E119	Yes
Articulation-Manufacturer	KINKISHARYO International
Seat Manufacturer	American Seating
Seat Type	KINKISHARYO International Cantilevered support, SS frame with fabric /wool covered inserts
Window Type	Single pane, tinted, laminated safety glass with vandal shield, mounted in gasket to carbody
Couplers	
Manufacturer	Dellner
Location of Electric Heads	Retractable Sides & 1 fixed top head
Isolation Method	Retractable Heads
Coupler Height (TOR to CL)	18.5 in (470 mm)
Couplers stowed when uncoupled	Yes
Electrical Equipment	
LVPS Manufacturer	Rhienmetall (RhC) (formerly Oerlikon)
LVPS Output (kW)	10
APS Manufacturer	RhC 208Vac, 3- Φ inverter, redundant design in 1 package
APS Output (KVA)	66 @ 0.85 PF
Battery Manufacturer	SAFT
Battery Capacity (A.h.)	250
APS	Redundant APS
Lighting	
Manufacturer	Translite
Ballast Type	DC
Fixtures Contain Air Diffusers	Yes
Railroad Headlight	Yes
ATP	
Manufacturer:	US&S Cab Signals, Brake Assurance

Destination Signs	
Manufacturer	Translite
Type	LED
Number per Car	4 + 4 passenger information signs
Location	Front /Side. (Side signs are double-sided).
Propulsion	
Manufacturer	Elin EBG, Vienna
Motors/Powered Truck	2
Method of Cooling for Motors	Self ventilated, enclosed
Control Type	IGBT VVVF Inverter
Control Package/Car	2
Control State-of-the-Art	μ -processor
Method of Cooling for Control	Forced air
Pantograph Manufacturer	Transtech
Motor Rating (kW)	140
Type Gearing	Double reduction-resilient mount
Gear Ratio	6.63:1
Friction Brakes	
Manufacturer	Knorr
Type	Spring-applied, hydraulic release on 4-discs. Hydraulic applied on center truck.
Separate Control	All trucks
Track Brake Manufacturer	Knorr
Number of Axles With Brakes	6
Doors	
Type	Sliding Plug
Number per Side	4
Manufacturer (Controls)	IFE
Controls (Location/Type)	1 per opening/ μ -proc
Sensitive Edge	Tape switches
Passenger Activated	Yes
Trucks and Suspension	
Manufacturer	Kinki Sharyo Co. Ltd.
Primary Suspension	Chevron
Secondary Suspension	Air Spring
Load Leveling	Yes
Wheel Base	Motor: 75 in (1905 mm) Trailer: 71 in (1803 mm)
Wheel Manufacturer	Penn Machine
Wheel Type	Bochum 84
Wheel Size	26 in (660 mm)
Truck Centers	35.83 ft (10921 mm)
Frame Location	Inside
Wheel Profile	1:20 taper
HVAC	
Manufacturer	Faiveley
Heating Configuration	Overhead 2-stage & floor (208Vac 3- Φ)
Heating Capacity (kW)	18.3KW overhead 19.6KW floor
Cooling Configuration	2 roof mounted units with 2-stage scroll compressors
Cooling Capacity (Tons)	13 total 6.5 per end
Communications	
Manufacturer: GeoFocus • Systems include PA System—Inside/Outside, Intercom (4 per car), Prerecorded Announcements & Message signs, Ethernet trainline, CCTV rear view mirrors with CCTV interior/exterior storage, Passenger Counters, Event Recorder, Monitoring Diagnostic System, WLAN maintenance connection to the shop.	

