

Technical Data



The "Super" LRV (SLRV) is borne by the installation of a custom designed low-floor center section added in the middle of the service proven high-floor Dallas LRVs. This center section not only increases passenger capacity, but improves throughput by reducing dwell times with greatly improved level-boarding ADA access.

Formation:
8 - Axle Articulating

Track Gauge:
4ft – 8.5in / 1435mm

Electric System:
750 Vdc
Overhead Catenary
System



| Dallas - Dallas Area Rapid Transit | |
|------------------------------------|--|
| General | |
| Manufacturer | KINKISHARYO International |
| Quantity | 115/48 |
| Yr. Delivered (Last) | 2010/2013 |
| Body Type | 8-axle double articulating |
| Empty Weight | 140000 lbs (63500 kg) |
| Seats | 98 passengers |
| Minimum Radius | 82 ft (25 m) |
| Voltage (VDC) | 750 |
| Maximum Speed (Balance) | 70 mph (112 kph) |
| Full Acceleration | 2.3 mphps (1.03 m/s ²) |
| Deceleration, Service | 3.0 mphps (1.34 m/s ²) |
| High/Low Platform | High/Low |
| ADA Accessibility | Level Boarding |
| Maximum Cars to Train Line | 4 |
| Noise Level at 40 mph & 50 Ft | 76 dBA |
| Carbody | |
| Manufacturer | Kinki Sharyo Co. Ltd. |
| Material | LAHT |
| Buff Load (Lbs) | 220,000 |
| Length (Over Coupler Faces) | 123.5 ft (37643 mm) |
| Width | 8.83 ft (2691 mm) |
| Height | 12.5 ft (3810 mm) |
| Ceiling Height | 6.75 ft (2057 mm) |
| Floor Height (TOR) | Low floor 16 in (406 mm) High floor 39.5 in (1003 mm) |
| Floor Construction/Covering | Plymetal/Neoprene Rubber |
| Passed ASTM E119 | Yes |
| Articulation-Manufacturer | SIG |
| Seat Manufacturer | Artcraft / Kustom |
| Seat Type | SS Fabric-covered / SS fabric covered Wool-covered ILD Foam |
| Window Type | Laminated Safety Glass |
| Couplers | |
| Manufacturer | WABCO |
| Location of Electric Heads | Side |
| Isolation Method | Drum Switch |
| Coupler Height (TOR to CL) | 20 in (508 mm) |
| Electrical Equipment | |
| LVPS Manufacturer | Stone Safety/ Transtechnik / Faiveley |
| LVPS Output (kW) | 10 |
| APS Manufacturer | Transtechnik / Faiveley inverter |
| APS Output (KVA) | 80 |
| Battery Manufacturer | SAFT |
| Battery Capacity (A.h.) | 240 |
| APS | Transtechnik (C-Unit) |
| Lighting | |
| Manufacturer | Luminator |
| Ballast Type | AC/DC |
| Fixtures Contain Air Diffusers | Yes |
| Railroad Headlight | Yes |

| Destination Signs | |
|---|---|
| Manufacturer | Translite |
| Type | Curtain |
| Number per Car | 6 |
| Location | Front/Side |
| Propulsion | |
| Manufacturer | AEG (95 GTO) / Toyo Denki (68 IGBT) |
| Motors/Powered Truck | 2 |
| Method of Cooling for Motors | Forced Air |
| Control Type | AC |
| Control Package/Car | 2 |
| Control State-of-the-Art | Integrated Circuits GTO / IGBT |
| Method of Cooling for Control | Forced air |
| Pantograph Manufacturer | Transtech |
| Motor Rating (kW) | 140 / 135 |
| Type Gearing | WR, Double reduction parallel helical gear unit |
| Gear Ratio | 6.058 AEG / 6.42 Toyo Denki |
| Friction Brakes | |
| Manufacturer | WABCO |
| Type | Air-applied |
| Separate Control | Yes |
| Track Brake Manufacturer | Knorr |
| Number of Axles With Brakes | 8 |
| Doors | |
| Type | Sliding pocket |
| Number per Side | 5 |
| Manufacturer (Controls) | Faiveley/IFE |
| Controls (Location/Type) | Overhead Air - Faiveley / Overhead electric IFE |
| Sensitive Edge | Yes |
| Photo Cells | Yes |
| Passenger Activated | Yes |
| Trucks and Suspension | |
| Manufacturer | Kinki Sharyo Co. Ltd. |
| Primary Suspension | Chevron |
| Secondary Suspension | Air Spring |
| Load Leveling | Yes |
| Wheel Base | Motor: 84 in (2133 mm) Trailer: 70 in (1778 mm) |
| Wheel Manufacturer | Penn Machine |
| Wheel Type | Bochum 84 |
| Wheel Size | 28 in (711 mm) |
| Truck Centers | 31 ft (9449 mm) |
| Frame Location | Inside |
| Wheel Profile | Modified Worn Wheel Profile |
| HVAC | |
| Manufacturer | Stone Safety / Merak |
| Heating Configuration | Overhead & Floor Heat |
| Heating Capacity (kW) | 28.5 KW overhead 22.2 KW floor |
| Cooling Configuration | Roof |
| Cooling Capacity (Tons) | 9 per unit (27 tons) |
| Communications | |
| Manufacturer: Midwest GFI • Systems include PA System—Inside/Outside, Intercom, Prerecorded Announcements—Init part VBS system, Passenger Counters - Init part VBS system, Event Recorder—Part of Brake Monitor, GPS Positioning—Init VBS System. | |

