Technical details

Diagram of the Siemens-Duewag U2
The U2's dimensions are 24.284 m (79 ft 8.1 in) by 2.650 m (8 ft 8.3 in) by 3.66 m (12 ft 0 in). In the US and Canada, usually up to five U2 cars are coupled to run as a train. Calgary Transit regularly couples up six U2 cars to shuttle them from Anderson Garage to Haysboro storage. These unique shuttle trains can be commonly seen after the evening rush hour. Each articulated car has a total passenger capacity of 264 passengers. It may be equipped with two DC motors for a total power output of 300 kW (400 hp) and a maximum speed of 80 km/h (50 mph), or with four AC motors for an output of 544 kW (730 hp) and speed of 88 km/h (55 mph).

As the length of a tram or light-rail train running on shared track is restricted to a maximum of 105 meters in Germany, up to four U2 cars may be used in a single consist on such track.

Frankfurt U2 cars use Scheren (diamond) or single-arm (z-shaped) pantographs, while Calgary, Edmonton and San Diego vehicles use a single-arm (z-shaped) pantograph.

Manufacturer: Düwag Düsseldorf, West Germany
Type: Double-ended articulated car, 6 axle, multiple-unit operation
Height: 12.4 feet (3,780 mm)
Width: 8.7 feet (2,652 mm)
Length: 76 feet (23.165 m), 76.71 feet (23.381 m) or 88.5 feet (26.975 m)
Weight (empty): 77,161 pounds (35,000 kg), 89,000 pounds
Car Body: Lightweight welded steel
Wheels: Steel-tired with acoustic dampening
Dynamic Braking
Speed: 50 to 55 mph (80.5 to 88.5 km/h)
Overhead Traction Power: 600 V DC