

# Urban Electric Multiple Unit Train for Rapid Transit

This electric multiple unit (EMU) train is designed for urban rapid transit systems. It features a streamlined exterior, large passenger windows, and advanced signaling for efficient operation.



## Overview

### High-Efficiency Urban Rapid Transit EMU

This Urban Electric Multiple Unit (EMU) train is engineered for high-capacity passenger transport in rapid transit environments. Featuring a 6-car marshalling configuration, it offers exceptional flexibility for urban networks with a design speed of 90km/h. Designed with passenger safety and efficiency in mind, the unit provides high acceleration and braking performance suitable for frequent-stop transit operations.

## Technical Specifications

|               |                           |
|---------------|---------------------------|
| Track Gauge   | 1435 mm                   |
| Max Axle Load | 16 t                      |
| Power Supply  | DC1500V Elevated Catenary |

## Dimensions

### Physical Dimensions

| Parameter | Value | Unit |
|-----------|-------|------|
| Length    | 22800 | mm   |
| Width     | 3000  | mm   |
| Height    | 3800  | mm   |
| Wheelbase | 2500  | mm   |

## Performance

### Speed Performance

**90 km/h**

Design Speed

**80 km/h**

Max Service Speed

### Acceleration & Braking

- Mean initial acceleration (0-35km/h):  $e1.0m/s^2$
- Mean service brake deceleration (80km/h-0):  $1.0m/s^2$
- Mean emergency brake deceleration (80km/h-0):  $e1.3m/s^2$
- Jerk limit:  $0.75m/s^3$

## Capacity

### Passenger Capacity

- Seating: 384 P/Train
- Fixed capacity AW2 (6P/m<sup>2</sup>): 2464 P/Train
- Fixed capacity AW3 (9P/m<sup>2</sup>): 3278 P/Train