

High-Speed Electric Passenger Locomotive

This locomotive integrates advanced network control technology, GTO water cooling, and converting technology. It also features air-electric blended brake technology.



Overview

High-Speed Passenger Locomotive

This high-speed electric passenger locomotive features a streamlined, aerodynamic design engineered for efficiency and performance. With a continuous power output of 4,800kW and a specialized spring suspension system, it is capable of reaching speeds up to 200km/h. Designed for resilience, it operates reliably in extreme environmental conditions as low as -50°C, making it a robust solution for demanding rail transit requirements.

Performance Metrics

Maximum Running Speed

200 km/h

Max Speed

Continuous Power

4800 kW

Continuous Power

Starting Traction Effort 264 kN

Continuous Traction Effort 206 kN

Technical Specifications

Electrical System

Parameter	Value
Current Mode	50Hz Single Phase AC
Rating Voltage	25kV
Transmission Mode	AC-DC-AC Drive
Electric Brake Mode	Regenerative Brake
Brake Power	4,400kW

Dimensions & Weight

- Service Weight: 82t
- Gauge: 1,520mm
- Total Wheelbase: 13,550mm
- Distance between Coupler Centers: 20,032mm
- Height (Panto Lowered): 4,640mm

Operational Details

Operating Conditions	Min Temp -50°C, Axle Arrangement Bo-Bo
Speed Range at Constant Traction	84km/h - 210km/h