

## Australia, Adelaide

# ◁ Adelaide A-City EMU ▷



Designed specifically for the electrification of Adelaide's metropolitan passenger rail network, the A-City 25kV EMUs combine strong technical pedigree with state of the art technology and bold styling. The A-City brings a new level of quality, comfort, and reliability to the people of Adelaide.

Designed and built locally to meet the harsh conditions of South Australia, the A-City combines two of Australia's best rail vehicles, known for their performance and reliability - the Perth 'B' Series EMU and the "Australian Design Award" winning VLocity DMU. From these proven platforms, all characteristics have been optimised for Adelaide conditions, resulting in a vehicle that is safe, stylish, and comfortable.

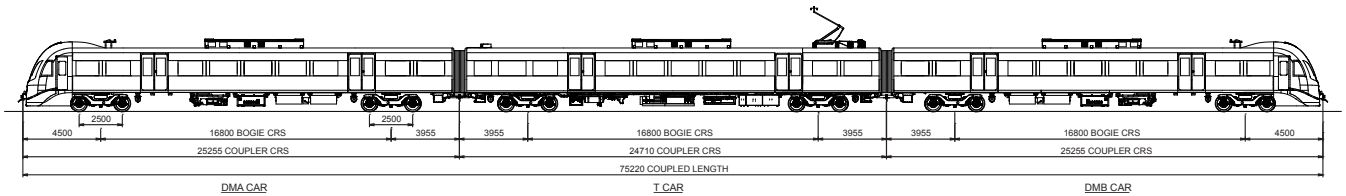
These high capacity trains feature a wide body with a slim side wall construction, thereby maximising interior space. Operating primarily as a permanently coupled three car set, a consist of six cars may be readily formed by the coupling of two sets.



Featuring weatherproof bellows between cars allowing full walk through, air conditioning, video surveillance, and extensive provision for customer comfort, the A-City delivers a superior level of service for the people of Adelaide.

Commuter Trains

**BOMBARDIER**



## General Data

Contract award	March 2011
Type of vehicle	4000 Class Commuter EMU
Operator	PTS DTEI (Department of Transport Energy and Infrastructure)
Train consist	Up to 2 coupled three-car sets
Maximum speed	110 Kph

## Main Dimensions

Train set length over coupler (3 car)	75,220 mm
Length over coupler (driving car)	25,255 mm
Length over coupler (trailing car)	24,710 mm
Total width (at doors)	3,050 mm
Total height over equipment	4,010 mm
Floor height (above rail level)	1,200 mm
Wheel diameter (new/worn)	920/850 mm
Bogie centre distance	16,800 mm
Bogie wheel base	2,500 mm
Track gauge (broad/standard)	1,600/can be converted to 1,435mm

## Technical Characteristics

Propulsion	Two separate IGBT water cooled converters each supplying four parallel traction motors
Traction motors (AC)	8 x 200kW per three car set
Carbody material	Stainless steel
Brake system	Wheel mounted disc brake
Air conditioning system	56.6 kW cooling 30 kW heating
Cab air conditioning	5 kW cooling 3.1 kW heating
Acceleration max	0.8 m/s <sup>2</sup>
Deceleration max service	1.12 m/s <sup>2</sup>
Deceleration emergency	1.2 m/s <sup>2</sup>
Overhead line voltage	25 kv, 50 Hz

## Capacity

	Fixed	Folding
Driving motor car A	60	12
Trailer car	72	20
Driving motor car B	60	12
Wheel chair and multi-use spaces	6	

## Bombardier Transportation

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