ATS Street Car and Trolley Bus Traction System

The ATS A300 series of Traction Motor Controllers are high performance IGBT drives designed specifically for the unique needs of Street Car and Trolley Bus systems.

### General Specifications A300 Controllers

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hp Range</td>
<td>60Hp (dual motors) 120Hp (single motor)</td>
</tr>
<tr>
<td>Continuous Current Rating</td>
<td>200A</td>
</tr>
<tr>
<td>Current Overload Capability</td>
<td>150% for 1 minute 200% for 3 seconds</td>
</tr>
<tr>
<td>DC Supply Voltage</td>
<td>650VDC nominal</td>
</tr>
<tr>
<td>Power Loss Capability</td>
<td>One second ride thru</td>
</tr>
</tbody>
</table>

### Traction System Features

- Complete, Compact System
- Solid State Reversing
- 300A Dynamic Brake Controller
- 1000V 1250A DC rated Contactor
- Forced Air Cooling
- Modular Design
- Common and Differential Mode EMI Filter

New Orleans (NORTA) Streetcar powered by ATS A300 Controller

ATS Streetcar control system

**ATS A300 IGBT performance and energy saving improvements over conventional (Contactor/Resistive) Street Car and Trolley Bus Controllers**

Conventional systems use contactors to switch motor configuration and resistive loads to the motors, causing the stepping shown in the graphs below. The ATS IGBT controller eliminates these steps, providing smoother and more efficient control of the traction motors.
Typical Streetcar Application

New Orleans Von Dullen Canal Street Streetcars