

# A300

## Traction Motor Control Systems for Street Cars

The Saminco A300 series of DC or AC Traction Motor Controllers are high performance microprocessor based, solid state drives designed specifically for the unique needs of Street Car and Trolley Bus systems.



New Orleans (NORTA) Streetcar powered by Saminco A300 Controller

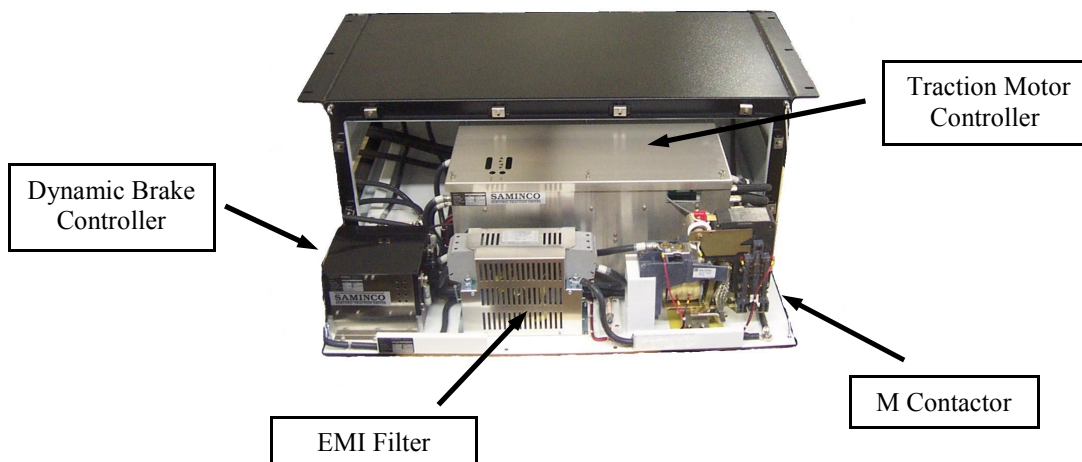
### General Specifications A300 Controllers

Hp Range	60Hp (dual motors) 120Hp (single motor)
Continuous Current Rating	200A
Current Overload Capability	150% for 1 minute 200% for 3 seconds
DC Supply Voltage	650VDC nominal
Power Loss Capability	One second ride thru
Communications Port	RS232/485
Fault History	Last 15 faults stored

### Traction System Features

Complete, Compact System
Solid State Reversing
600V 300A Dynamic Brake Controller
1000V 1250A DC rated Contactor
Forced Air Cooling
Modular Design
Common and Differential Mode EMI Filter

### Saminco Street Car and Trolley Bus Traction System

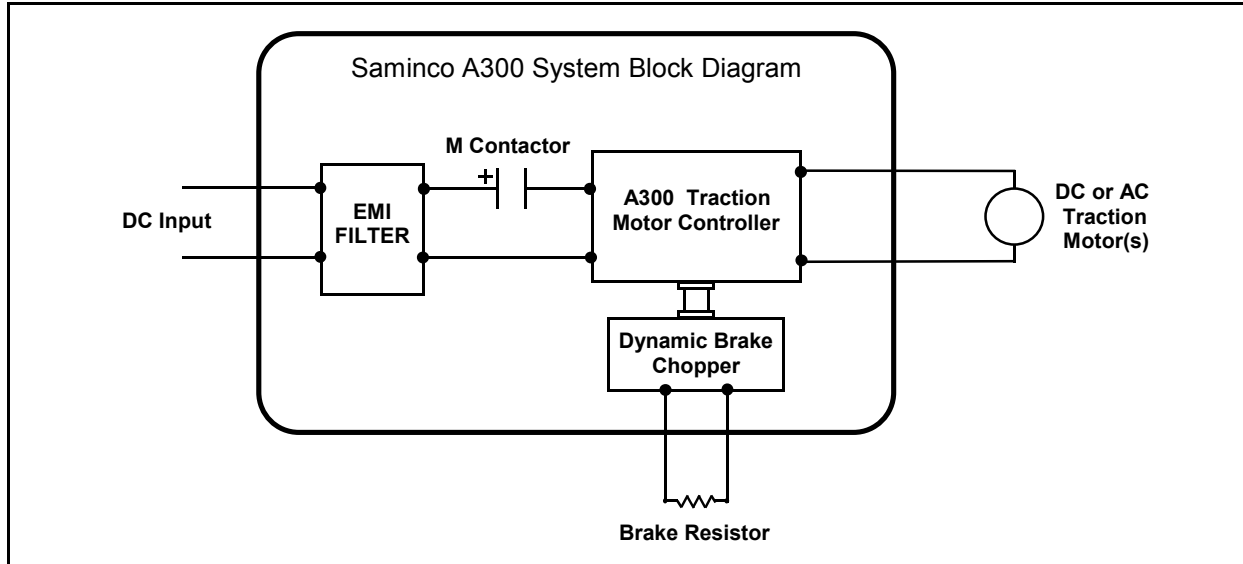


A compact solution for modern transportation



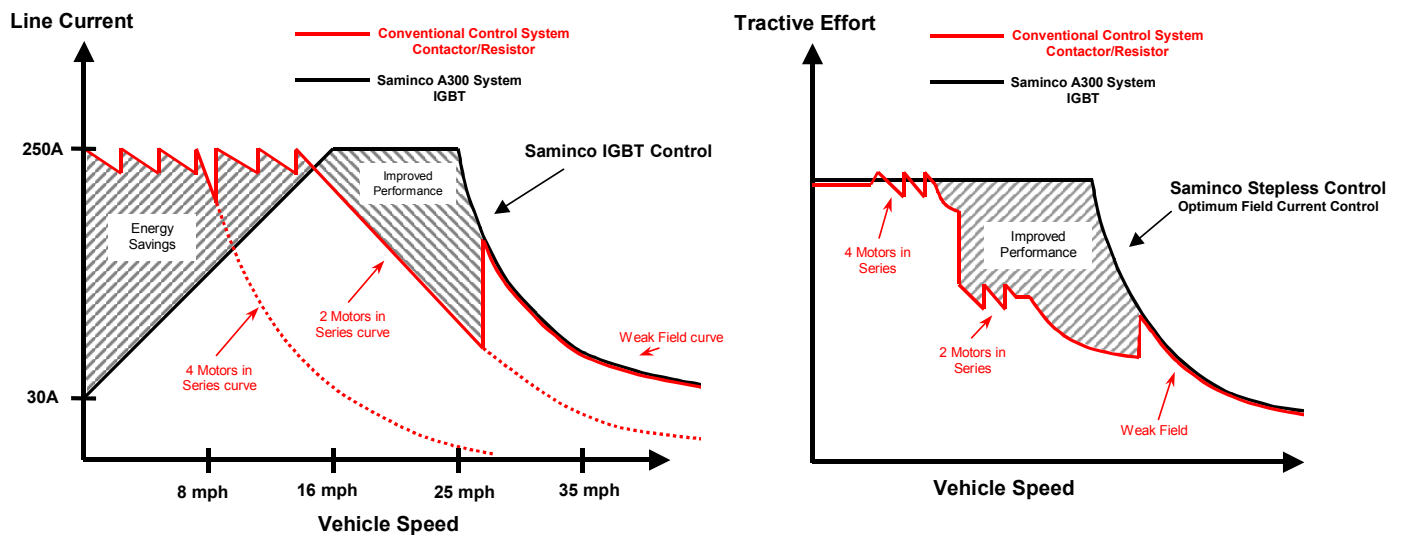
48" l x 25" w x 18" h 550lbs  
(1220mm x 635mm x 460mm 250kg)

The A300 System's Modular design allows for custom application configurations in the same compact package. Contact Saminco for Hp and Voltage ranges available.



### Saminco 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 Saminco IGBT controller eliminates these steps, providing smoother and more efficient control of the traction motors.



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