CS1201A/CS1201B

24V Lead-Acid Onboard Battery Charger



Features

- Five-stage charging, when used with the CS11XX series motor controllers: cell preparation, charge qualification, bulk charge, cell balancing, and float charge.
- Protection against short circuits on the output Automatic recovery on short removal.

Description

These chargers are designed to be used in conjunction with the CS11XX series motor controllers or as a stand-alone trickle chargers and are capable of charging two 12V, 17 Amp-Hour (or larger) sealed lead acid batteries wired in series.

These chargers are a true on-board battery charger, in that they are designed to be mounted permanently on a unit using existing enclosure mounting holes. These units are fully enclosed to minimize water entry.

When used with a CS11XX series motor controller, the CS11XX controller controls the entire charge cycle and monitors battery conditions to ensure batteries are fully charged without over-charging.

Our battery chargers are UL recognized to the following UL specifications:

CS1201A # UL 1012 E247509 **CS1201B** # UL 60601-1 E319673

Features (continued)

- Protection against AC surges on the AC input.
- Protection against battery reverse polarity Automatic recovery upon fault removal.
- Protection against over temperature conditions Automatic recovery.
- Charging indication is displayed on the external battery capacity display or LED.
- Constant voltage (not pulsed) to reduce battery heating and increase battery life.
- Accurate float charge voltage allows charger to be left connected to batteries indefinitely to maintain full charge.
- Extruded aluminum enclosure for EMI shielding and water resistance.
- Switching power supply provides higher power output with smaller size and weight than traditional linear chargers.
- Less than 8 hour recharge for battery capacity under 24 Amp-Hours (ANSI measurement method).

Why Control Solutions?

- **Reliability** This is our top priority. Years of industry experience has made our products the toughest and most dependable on the market today.
- **Customer Service** We pride ourselves in offering exceptional Customer Service through a technical assistance hotline, fast repair turnaround, and quarterly return/warranty analysis.
- **Quality Control** Every Control Solutions product is tested on our custom computer automated testers. This ensures every unit shipped meets our strict quality standards.
- Innovation Control Solutions is a pioneer of several industry standards and user features. We continue to innovate and evaluate new ideas and strive to help shape the future of electric mobility.
- **Designed** in the U.S.A., at a registered ISO 9001 facility.









CS1201A/CS1201B

Specifications

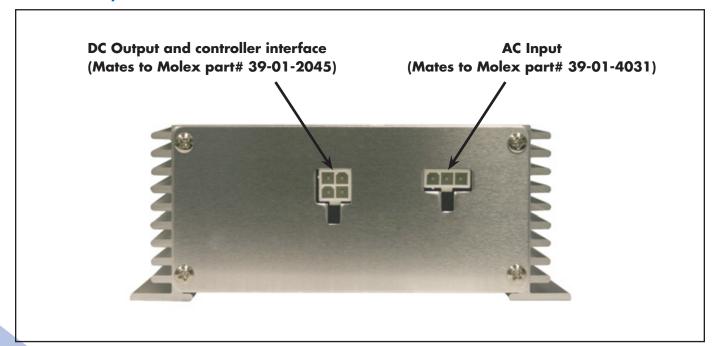
CS1201A/CS1201B* Specifications	Minimum	Typical	Maximum	Units
AC Input Voltage	90	120	130	Volts
AC Input Frequency	50	60	60	Hz
AC Input Current		.8	1.2	Amps
Peak Charge			3.7	Amps
Output Bulk Charge Voltage	29.2	29.3	29.4	Volts
Output Float Charge Voltage	27.4	27.6	27.9	Volts
Trickle Charge Current		50		mAmps
Operating Ambient Temperature	-20	25	45	°C
Physical Size		5.3 x 5.3 x 2.1		Inches
Weight CS1201A/CS1201B		1.55 (.70) / 3.02 (1.37)		Lbs. (Kg)

Our battery chargers are UL recognized to the following UL specifications:

Specifications subject to change without notice.

CS1201A # UL 1012 E247509 **CS1201B** # UL 60601-1 E319673

CS1201A, CS1201B Connectors











11-8-10