



# CS1207

## NiMH or NiCD Battery Charger

### Features/Benefits

- Four-stage NiMH or NiCD charging: cell preparation, bulk charge, top-off charge, and float charge.
  - Protection against short circuits, DC surges (input), with automatic recovery.
  - 16 hour trickle charge termination under extreme temperatures.
  - dv/dt bulk charge and float voltage termination.
  - Charging indication is displayed on the external battery capacity display or LED when used with the CS11xx series motor controllers.
  - Pulse charging technology is used for a more evenly charged battery.
  - Accurate float charge voltage allows charger to be left connected to batteries indefinitely.
- Switching power supply provides higher power output with smaller size and weight than traditional linear chargers.
  - Less than 4 hour recharge for battery capacity under 3.3 Amp-Hours (ANSI measurement method).



### Description

The CS1207 was designed to be used in conjunction with the CS11XX series motor controllers to charge a 3.3 amp-hour NiMH or NiCD battery pack.

CS1107 provides protection against reverse polarity on both input DC power and output battery. And protection against over and under temperature conditions with automatic recovery.

The modular design of the CS1207 battery charger allows it to be incorporated into a custom motor controller assembly application.

**This product is designed to be integrated into an enclosed application and cannot be used unenclosed.**

### About Us

Control Solutions LLC designs, manufactures and provides American made mobility products for the dealer-provider marketplace. We are committed to providing state-of-the-art designed products that will give the independent dealer a competitive advantage. Product reliability is our top priority. Significant investments into the design of our custom ASIC chip along with controller design and years of experience, has made our controllers an industry standard.

Control Solutions LLC 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



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BR0053-01

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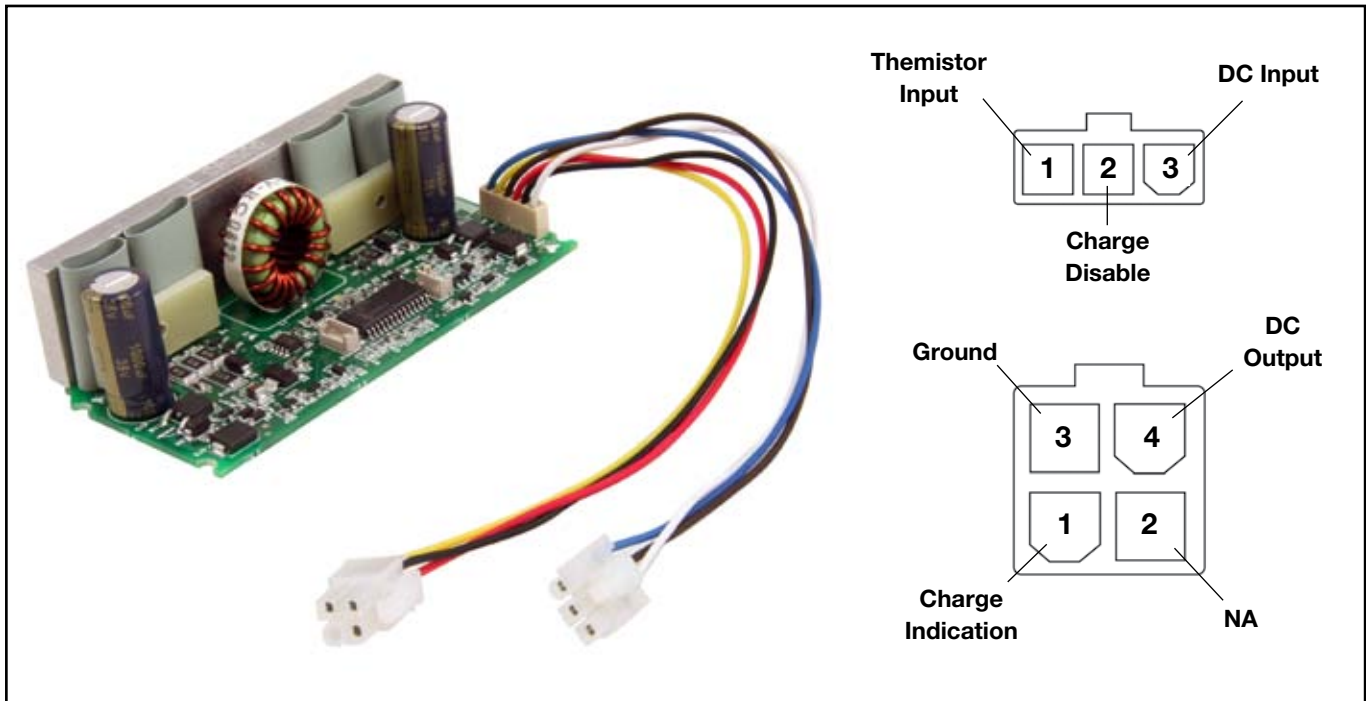
### Specifications

CS1207 Specifications	Minimum	Typical	Maximum
DC Input Standby Current $\mu$ Amps		100	
DC Input Voltage	19	24	33
DC Input Current Amps		2.5	
Peak Charge @27V Amps			1.8
Output Bulk Charge Voltage	16		30
Output Float Charge Voltage	29.7	30	30.3
Float Charge Current mAmps		64	
Trickle Charge Current mAmps		300	
Operating Ambient Temperature $^{\circ}$ F ( $^{\circ}$ C)	-4 (-20)	77 (25)	140 (60)
Physical Size, Inches (mm)		4.0 x 2.0 x 1.1 (102 x 51 x 28)	
Weight, lbs. (kg)		1.55 (.70)	

Normal operating temperature: 32  $^{\circ}$ F – 122  $^{\circ}$ F (0 $^{\circ}$ C – 50 $^{\circ}$ C)

Extreme operating temperature: <32  $^{\circ}$ F – 122  $^{\circ}$ F> <0 $^{\circ}$ C – 50 $^{\circ}$ C>

### CS1207 Connectors



Specifications subject to change without notice.



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