

Innovative Solutions for a World in Motion™

Control Solutions Inc.

CS1107 - 24V PWM Motor Controller and User Interface Display



The CS1107 is truly one of a kind in the electric scooter industry. Designed for light to medium duty permanent magnet motor applications. It is the smallest 24V motor controller in the industry today. The CS1107 is so small that it is capable of being mounted in the tiller enclosure of the scooter itself. Also, the CS1107 has an LED on the opposite side which can indicate power on/off, low battery voltage, error diagnostics, and charging status. This translates into significant reductions in component costs, production costs, and service costs to the OEM. The CS1107 is ideal for use on light weight travel scooters and shopper scooters.

Features:

- ◆ Very small size, also can be used as the user interface display
- ◆ Fully Programmable
- ◆ LED Diagnostic codes
- ◆ Designed and fully manufactured in the US
- ◆ Designed to comply with US and European regulations
- ◆ ASIC Technology - Our own custom mixed signal ASIC enables us to have decreased component count and increased reliability. Ask us how...

“The 24V scooter controller and user interface that fits in the palm of your hand”



See reverse for additional information and specification table

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Why **Control Solutions**?

- ◆ **Customer Service** - We pride ourselves in offering exceptional Customer Service through a technical assistance hotline, on-site training of your technical staff, fast turnaround on repairs, providing quarterly return/warranty reports, etc..
- ◆ **Reliability** - Product reliability is our top priority. Significant investments into the design of our own custom ASIC chip along with controller design evolution through years of industry experience, has made our motor controllers one of the most reliable on the market today.
- ◆ **Quality Control** - All products are 100% tested on our custom computer automated testers. All products are serial number controlled and packing lists cannot be generated for failed or untested products.
- ◆ **Innovation** - Control Solutions Inc. is a pioneer for several industry standards and user features, for example: The use of a micro-processor, LED Diagnostics, Power on Demand, and others. We continue to innovate and evaluate new ideas and will always strive to help shape the future of electric mobility.
- ◆ **Additional features found on our controllers:**
 - Over Temperature Protection
 - High Pedal Disable
 - On-board integrated charging control
 - Throttle Fault detection
 - Low/High Voltage Shutdown

Specifications

CS1107 Specifications	Min.	Typical	Max.	Units
Input Voltage	17	24	33	Volt
Peak current limit*		40		Amp
Continuous current limit*		20		Amp
PWM Frequency		20		KHz
EM brake output current			1	Amp
EM brake activation timing		Automatic		
Stand by current @24V		30		mAmp
Operating ambient temp.	-20	25	45	°C
Physical Size		4.5x2.7x1.1		Inch

- * These parameters are programmable.