

Economical,  
Easy-to-use  
Charging Solution

## MCC-070 CONTROLLED CHARGER



### Part of an Advanced Battery Management Solution

The Midtronics MCC Controlled Charger offers an easy-to-use, economical solution to vehicle charging service. As the controlled charging component of the Midtronics Advanced Battery Management solution, the MCC's connected functionality enables advanced features designed to improve operational efficiency and enhance its value to your organization.

#### Dealership Service Garages

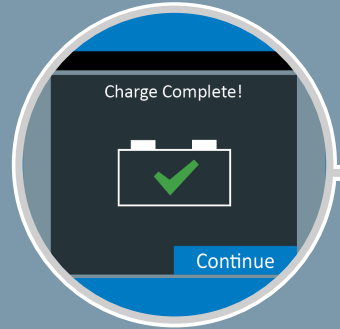
- Pre-Delivery Inspection – Vehicle to Dealer
- Pre-Delivery Inspection – Vehicle to Customer
- Lot inventory maintenance
- Service visits
- ECU reflash of onboard computers

#### Aftermarket & Retail Service Garages

- Walk-in
- Service visit
- Stock management

- Economical charging solution that doesn't require techs to be battery or charger experts
- Pre-programmed applications tailored to your battery management program
- Streamlined, easy-to-use interface simplifies charging applications
- Offers reflash support, quick fill, and full charging capabilities
- Also functional as a standalone product

Several key capabilities uniquely position the MCC as an ideal charging solution for today's vehicles, shops, and technicians



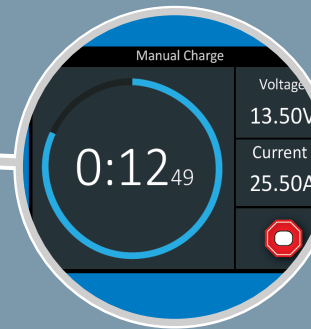
### App-based Charging

- User can focus on what actions need to be performed on the vehicle, rather than having to know or learn what specific kind of charging needs to be done
- Process-driven applications help users get more consistent and accurate results



### Enhanced User Interface

- Purpose-designed for optimal user experience
- Easy-to-read, clean & simple text
- Easy to learn and use, minimal training required
  - Streamlined, logical system navigation & button design for faster, more efficient service routines
  - Adaptable design for multiple user skill and experience levels
  - Colorful function icons to provide an intuitive user interface



### Special Algorithms with Switch-Mode Power

- Provide controlled and safe charging to quickly service different battery types (regular lead-acid, AGM, EFB)
- Future provision for Li-Ion service

### Protected Output

Circuit breaker prevents unsafe failures that may short the positive post of the battery to the chassis (ground) of the vehicle.

## Seamless Integration with BMIS and Midtronics Diagnostic Tools

The MCC offers seamless integration with Midtronics diagnostic tools and BMIS in an advanced battery management solution, as well as benefits to address the unique needs of any service application:

- Charges batteries – including new AGM & EFB models – effectively and quickly
- Safe & easy to use
- Clearly indicates charger status: charging, charge complete, charging error/fault
- Automatic and efficient charge recovery for deeply discharged batteries
- Manual voltage & current limit selections
- Temperature-based selectable charging limits
- Provides on demand current and constant clean voltage to the vehicle battery for the extended period of time required to update the vehicle computer software
- Selectable voltage levels from 11 – 16 VDC

### Wireless Communication & Network Capability

- Remote monitoring of charge cycle status throughout the entire shop/store with the DSS or 3rd party smart devices
- Seamless integration with Midtronics equipment and data system in an advanced battery management solution
- Integrated charging process
  - Improves speed and tracking capabilities
  - Midtronics DSS Battery Diagnostic Service System platform transmits vehicle battery information to the MCC
  - MCC final charging data (voltage, Ah, current, etc.) available to DSS and the Midtronics Battery Management Information System (BMIS)

## Battery Management System Technology

### DSS-5000

Battery Diagnostic Service System



### Cloud-Based Data

- Wireless equipment software updates
- Cloud storage of diagnostic service, location, vehicle & team activity data
- Robust analytical tools
- Flexible, comprehensive reporting options

### Gateway Router

Communicates with paired devices



### MCC-070

Controlled Charger Communicates with DSS-7000



### CVG-3

Identifies vehicles through OBD-II port for automatic testing



### Charge Cables

- 2m (Standard)
- 3m
- 5m

### Power Cord

Accepts locking C13 connector for region-specific power cables:

- United States: EMA 5-15 termination, rated at 15A/125V UL CSA
- EU & Latin America: 10A/250V IEC60320 / VDE
- Japan: PSE 15A/125V

### Applications

- Automotive
- Heavy-Duty
- Power Sports
- Marine
- Group 31
- Commercial 4D/8D

### Battery Chemistries

- Lead acid
- AGM
- EFB
- Lithium ion

### Rating System

- CCA
- CA
- MCA
- JIS
- DIN
- SAE
- IEC
- EN

### Operating Parameters

- Input Voltage: 120 VAC; 60 Hz; 12A maximum, 240 VAC, 50 Hz, 10A maximum
- Output: 15VDC; 70A maximum

### Temperature

- Operating temperature range: 0°C to +60°C (32°F to +140°F)
- Storage temperature range: -10°C to +85°C (14°F to 185°F)

### Dimensions

- (without handle or base)
- Height: 4.80 in (12.19 cm)
- Width: 13.1 in (33.27 cm)
- Length: 12.0 in (30.48 cm)
- Weight: 18 lbs

### Humidity

15% to 85% R.H., non-condensing

### Certifications

- CUL
- RoHS
- TUV
- CEC
- FCC

### Connectivity

#### Wi-Fi

- 802.11 b/g/n 2.4GHz
- Security – WEP, WP, WPA-2 Enterprise

#### Bluetooth

- 2.0
- USB 2.0 connection
- BTLE

#### CAN bus interface

### Safety Features

- Reverse polarity
- Clamp connection
- Non-12V battery connection
- Battery voltage too low (< 5.5 V)
- Clamp high temperature detection

### BMIS-Enabled

- Remote “over the air” software updates
- Remote diagnostics
- Enterprise asset management
- Reporting and analytic tools
- Communication with next generation Midtronics platforms and tools

### User Interface

- Advanced navigation and charge applications
- Remote notifications (Wi-Fi- or Bluetooth-enabled)
- Intuitive charge cycle feedback
- 3.5” color display
- 5-button keypad

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