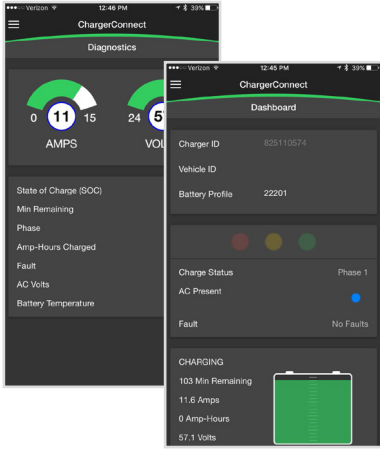


MC-Series Motive Chargers

Common Applications: Motive Power, Industrial/Utility Vehicles, Electric Vehicles, Material Handling



MC-650 Motive Charger



Mobile ChargeConnect App

Product Description

The Eagle Eye MC-Series includes two series of motive chargers for various voltage and current requirements. The **MC-650** is available at 48V/13.5A, 36V/18A, or 24V/27A. The **MC-1050** is available at 48V/22A, 36V/25A, or 24V/25A. All models have Bluetooth® wireless communication for use with the ChargeConnect app.

Standard Features

- MC-Series Models:
 - MC-650:** 24V/27A, 48V/13.5A, 36V/18A
 - MC-1050:** 48V/22A, 36V/25A, 24V/25A
- Multi-voltage support
- Bluetooth® smart wireless communication
 - Apps for Apple and Android phones and tablets
 - View charge cycle status
- Cloud connectivity via the app
- Over 200 charge cycle history records stored on the charger
- CAN bus communication standard
- External DC and signal connections
- Switchmode (high frequency) technology
- Best-in-class efficiency
- Low DC output ripple
- Industry-leading charging performance and intelligence
- On-board (built-in) or off-board (shelf) charging
- Universal AC input with IEC inlet
- Sealed enclosure, IP66, NEMA 4
- High reliability, durability, and longevity
- Intelligent natural convection cooling (no fan)

Technical Specifications

MC-Series Models	650 24V	650 48V, 36V	1050 48V, 36V, 24V
AC Input			
Voltage Range, Rated	100 - 240 VAC	100 - 240 VAC	100 - 240 VAC
Voltage Range, Operating	85 - 265 VAC (< 108 VAC: Reduced Power)	85 - 265 VAC (< 108 VAC: Reduced Power)	85 - 265 VAC (< 108 VAC: Reduced Power)
Frequency, Rated	50 60 Hz	50 60 Hz	50 60 Hz
Frequency, operating	45-65 Hz	45-65 Hz	45-65 Hz
Phase	Single-phase	Single-phase	Single-phase
Current, Maximum	< 8 A	< 8 A	< 12 A
Efficiency	> 90% peak, CEC test procedure, 115 VAC, AC and DC losses included	> 91.5% peak, CEC test procedure, 115 VAC, AC and DC losses included	> 91.5% peak, CEC test procedure, 115 VAC, AC and DC losses included
Protection	Current limit, surge, transient, under voltage, over voltage	Current limit, surge, transient, under voltage, over voltage	Current limit, surge, transient, under voltage, over voltage

MC-Series Models	650 24V	650 48V, 36V		1050 48V, 36V, 24V		
DC Output						
Power	650 W	650 W		1050 W		
Voltage, Nominal	24 VDC	48 VDC	36 VDC	48 VDC	36 VDC	24 VDC
Voltage, Maximum	36 VDC	72 VDC	54 VDC	77 VDC	54 VDC	36 VDC
Current, Maximum	27 A	13.5 A	18 A	22 A	25 A	25 A
Voltage, Mini Start-Up	10 VDC	10 VDC		10 VDC		
Battery Types	Wet/flooded, AGM, gel deep-cycle lead-acid; lithium-ion; custom	Wet/flooded, AGM, gel deep-cycle lead-acid; lithium-ion; custom		Wet/flooded, AGM, gel deep-cycle lead-acid; lithium-ion; custom		
Protection	Current limit, short circuit, reverse polarity, under voltage, over voltage; wrong batt voltage	Current limit, short circuit, reverse polarity, under voltage, over voltage; wrong batt voltage		Current limit, short circuit, reverse polarity, under voltage, over voltage; wrong batt voltage		
User & Vehicle Interfaces						
Bluetooth Smart Wireless	Apps for Apple and Android phone and tablets			Apps for Apple and Android phones and tablets		
LEDs	Charge complete (green), charge status (yellow), AC present (blue), fault (red)			Charge complete (green), charge status (yellow), AC present (blue), fault (red)		
Remote LED	Single tri-color, charge complete, charge status, fault; output standard LED assembly optional			Single wire		
Lockout / Interlock	Single wire			N/A		
Battery Temperature	Input standard; sensor optional			N/A		
CAN bus communication	CANopen standard, contact LE sales regarding other options			N/A		
Mechanical						
Dimensions	11.297 x 7.172 x 3.641 in (287 x 183 x 93 mm)			10.969 x 9.250 x 4.000 in (279 x 235 x 102 mm)		
Cooling	Natural convection (no fan)			Natural convection (no fan)		
AC Connector	IEC 60320 C16 inlet with cord clamp			IEC 60320 C16 inlet with cord clamp		
DC Connector	External terminals with cover			External terminals with cover		
Lockout Connector	External terminal with cover			External terminals with cover		
Battery Temp Connector	External terminal with cover			N/A		
Remote LED Connector	External DB9 (DE9)			N/A		
CAN Bus Connector	External DB9			N/A		
Mounting	Shelf, wall, bulkhead, threaded rod, hook			Shelf, wall, bulkhead, hook		
Handle	Optional			Optional		
Environmental						
Enclosure Rating	IP66, NEMA 4			IP66, NEMA 4		
Operating Temp	-25 to 60 °C (-13 to 140 °F)			-25 to 60 °C (-13 to 140 °F)		
Storage Temp	-40 to 85 °C (-40 to 185 °F)			-40 to 85 °C (-40 to 185 °F)		

Ordering Information

No.	Model #	Description
1	MC-650	Motive Charger, 24V or 48V, 36V
2	MC-1050	Motive Charger, 48V, 36V, 24V