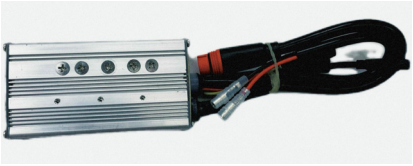
10 DEALER MANUAL FOR CR C101.C

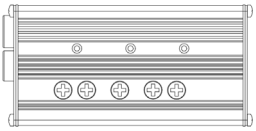
CONTENT

10.1 INTRODUCTION

- Appearance:



- Identification:

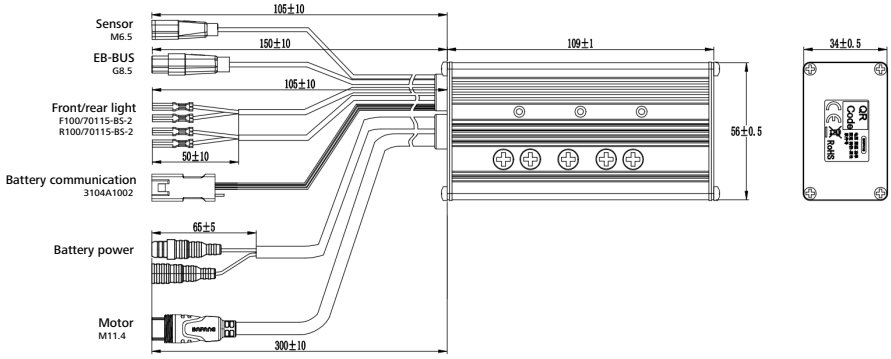


- **Model:** CR C101.C
- **Scope:** EN 15194 EPAC

Note: Content in the label is important information about this product. Please do not remove the information from the controller.

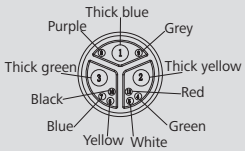
10.2 PRODUCT DESCRIPTION

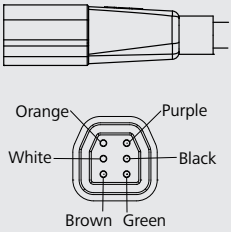
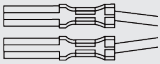
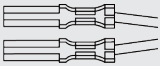
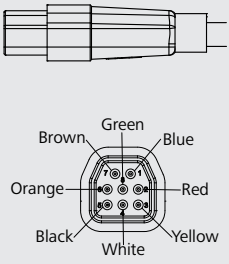
10.2.1 Outline and geometric size



Length (mm)	Width (mm)	Height (mm)	Weight (g)
109±1	56±0.5	34±0.5	435±10

10.2.2 Interface definition

Name	Schematic diagram	PIN	Description
Battery power cable		Red	Power +
		Black	Power -
Motor cable M11.4	 	Thick yellow	Phase U
		Thick green	Phase V
		Thick blue	Phase W
		White	Motor temperature
		Red	5V
		Black	GND
		Yellow	Hall U
		Green	Hall V
		Blue	Hall W
Battery communication 3104A1002	 	1 Yellow	CAN L
		2 Red	5V
		3 Green	CAN H
		4 Null	Plug

Name	Schematic diagram	PIN	Description
Torque sensor cable M6.5		Green	CAN H
		Brown	Power assist 1
		Black	GND
		White	CAN L
		Purple	Power assist 2
		Orange	5V
Front light cable		Red	Front light 6V3W/12V6W
		Black	GND
Rear light cable		White	Rear light 6V0.5W/12V1W
		Black	GND
EB-BUS cable G8.5		Blue	Throttle signal
		Red	5V
		Yellow	CAN L
		White	Brake signal
		Black	GND
		Orange	Key signal
		Brown	HMI power
		Green	CAN H

10.2.3 Specification

- Power Supply: 48V DC
- Rated Input Power: 850W
- Rated Output Power: 650W
- Rated Current: 18A
- Undervoltage Protection: 42V
- Shutdown leakage current: ≤10uA
- Static operating current: ≤50mA
- Operating Temperature: -20℃ to 60℃
- Storage Temperature: -25℃ to 70℃
- Storage Humidity: 30% to 70%
- Protection Rating: IP65
- Certification: CE / ROHS

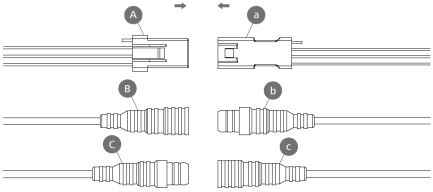
10.2.4 Function overview

- Communication protocol: CAN
- Brake cut-off function
- Power assist type: torque and speed
- Battery communication function
- Calculation of remaining distance, output power and calorie
- Walk assistance (≤6km/h)
- Front light and rear light (6V3W)
- Power assist level (0-5 level)
- Set speed limit, wheel diameter and wheel circumference
- Error code indication

10.3 CABLING CONNECTION

10.3.1 Connect the battery

Link the communication cable and power cable from controller with battery.



A. The female connector of the communication cable from the battery BMS

a. The male connector of the communication cable from the controller

B. The male connector (negative) from the battery

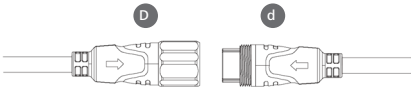
b. The female connector (negative) from the controller

C. The female connector (positive) from the battery

c. The male connector (positive) from the controller

10.3.2 Connect the motor

Please connect the connectors from the controller and motor together.

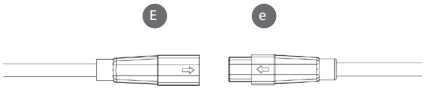


D. The male connector from the motor

d. The female connector from the controller

10.3.3 Connect the EB-BUS

Please connect the connectors from the controller and EB-BUS cable together.

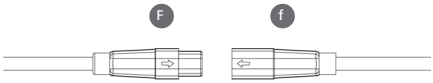


E. The female connector from the EB-BUS cable

e. The male connector from the controller

10.3.4 Connect the sensor

Please connect the connectors from the controller and the sensor together.

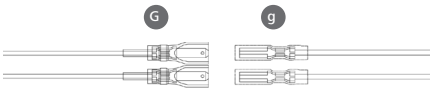


F. The male connector from the sensor

f. The female connector from the controller

10.3.5 Connect the light

Please connect the connectors from the controller and light cable together.



G. The male connector from the light cable

g. The female connector from the controller

Caution: For more stable and lasting work of the product, please make sure to power off before plugging any connector or repairing.