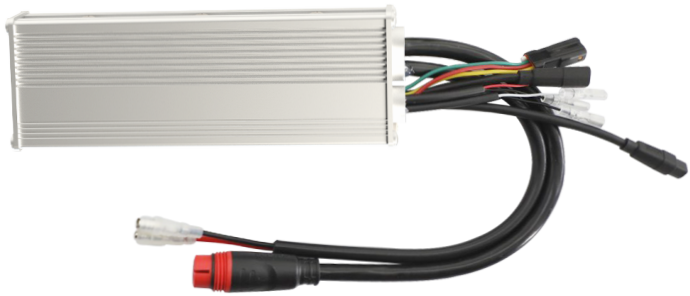
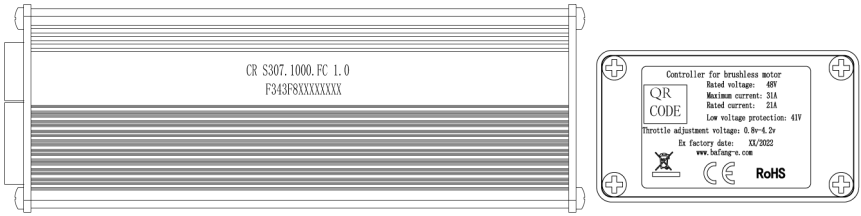
10 DEALER MANUAL FOR CR S307.1000.FC



CONTENT

10.1 INTRODUCTION

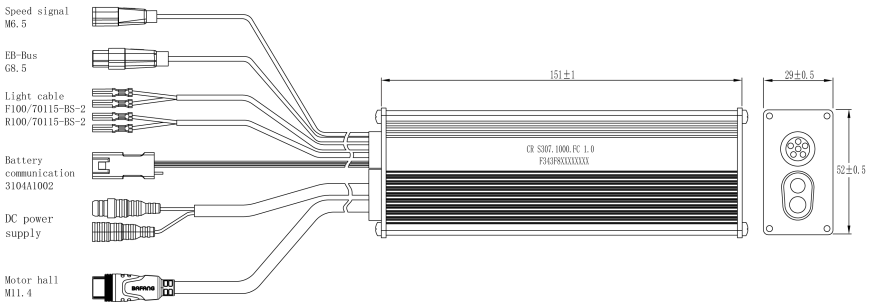
- Model: CR S307.1000.FC
- The label marking is as follows:



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

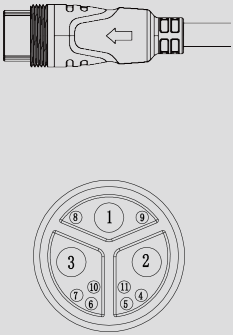
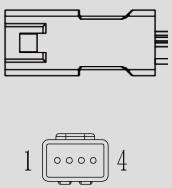
10.2 PRODUCT DESCRIPTION

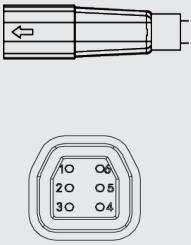
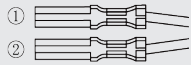
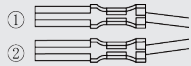
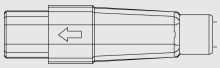
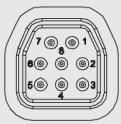
10.2.1 Outline and geometric size



Length (mm)	Width (mm)	Height (mm)
151±1	52±0.5	29±0.5

10.2.2 Interface definition

Name	Schematic diagram	No.	PIN	Description
Power		1	Red	Power +
		2	Black	GND
Motor		1	Blue	Phase A
		2	Yellow	Phase C
		3	Green	Phase B
		4	Green	Hall signal H2
		5	White	Speed signal
		6	Yellow	Hall signal H3
		7	Blue	Hall signal H1
		8	Purple	Null
		9	Grey	Null
		10	Black	GND
		11	Red	Power +
Battery communication		1	Yellow	CAN L
		2	Red	5V
		3	Green	CAN H
		4	Plug	Null

Name	Schematic diagram	No.	PIN	Description
Torque sensor		1	Orange	5V
		2	White	CAN L
		3	Brown	Signal 1
		4	Green	CAN H
		5	Black	GND
		6	Purple	Signal 2
Light cable		1	Red	6V/12V
		2	Black	GND
		1	White/Black	6V/12V
		2	Black	GND
EB-BUS cable		1	Blue	Throttle signal
		2	Red	5V
		3	Yellow	CAN L
		4	White	Brake signal
		5	Black	GND
		6	Orange	Key signal
		7	Brown	Display power +
		8	Green	CAN H

10.2.3 Specifications

- Power supply: 48V DC
- Rated input power: 1000W
- Waterproof: IP65
- Certification: CE / ROHS
- Operating Temperatures: -20℃ to 60℃
- Storage room humidity: 30% to 70%
- Waterproof: IP65

10.2.4 Functional Overview

- Communication protocol: CAN
- Communicate with BMS
- Power assistant type: speed and torque
- Boost function (speed ≤6km/h)
- Set speed limit, wheel size or wheel circumference
- Headlight and taillight (6V3W/12V6W)
- Assistant level (0-5 level)
- Power off function at braking
- Calculation of remaining mileage, power output and energy consumption
- Error code indication

10.3 CONTROLLER INSTALLATION

10.3.1 Cabling

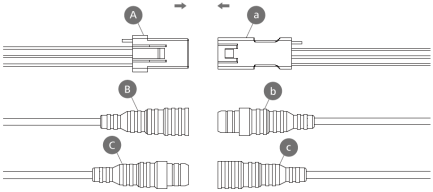
Extension cable for motor

EB-BUS overview

Extension cable for taillight

10.3.1.1 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

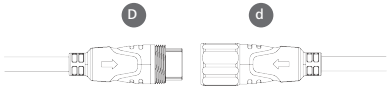
b. The female connector (negative) from the controller

C. The female connector (positive) from the battery

c. The male connector (positive) from the controller

10.3.1.2 Connect the extension cable for motor

Please connect the connectors from the controller and extension cable from motor together.

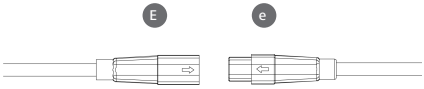


D. The female connector from the controller

d. The extension cable (male connector) for motor

10.3.1.3 Connect the EB-BUS

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

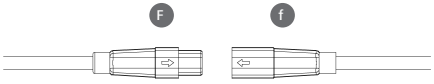


E. The female connector from the EB-BUS cable

e. The male connector from the controller

10.3.1.4 Connect the speed sensor

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

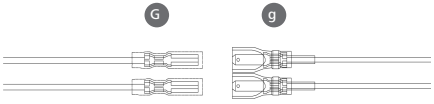


F. The male connector from the speed sensor

f. The female connector from the controller

10.3.1.5 Connect the extension light cable

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



G. The female connector from the controller

g. The male connector from the extension light cable