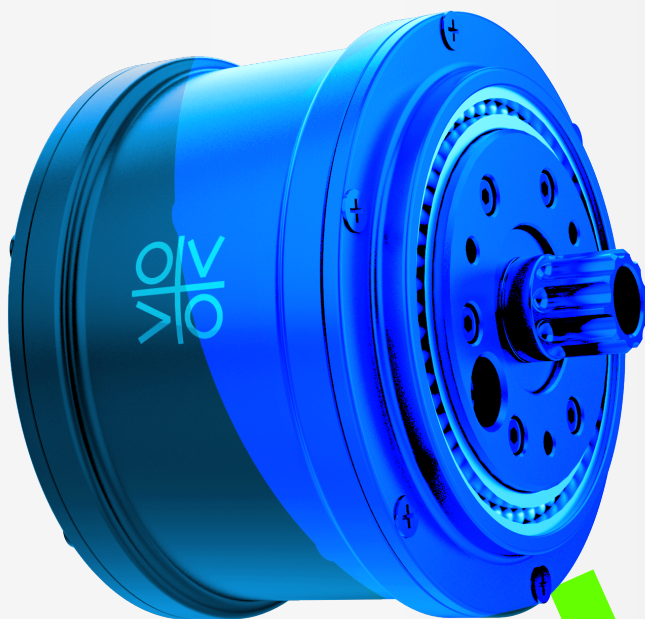




# PRODUCT MANUAL

2025



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FEEL THE POWER RIDE THE FUTURE

# DEALER MANUAL FOR OV+ (CG20)

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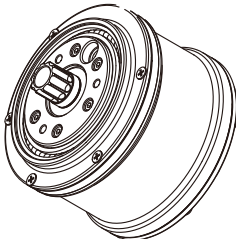
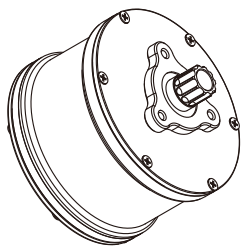


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# 1.1 INTRODUCTION

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- **Product Model**

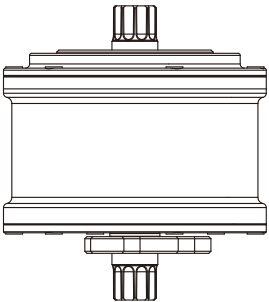
CG-20

- **Scope**



This product is intended for electric bicycles—including cargo models—and non-driven pedal systems that are specifically designed or licensed for this application.

It is suitable for road bicycles on urban streets, concrete and asphalt pavements, and for touring bicycles on gravel roads, and is also compatible with other non-driven pedal devices (e.g., aquatic pedal systems). Not for commercial use.

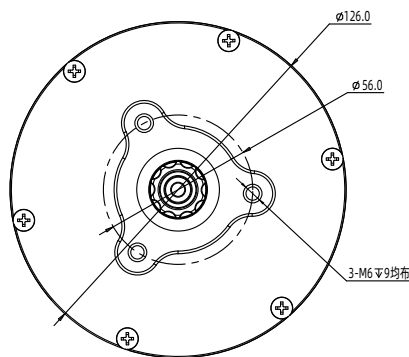


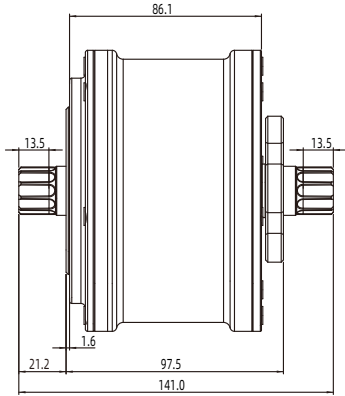
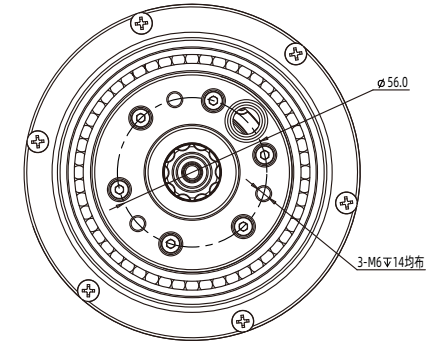
# 1.2 SPECIFICATIONS

Motor model: **CG-20**

Rated Power(W)	200
Generating Power(W)	120 (max)
Operating Temperature	-25℃ ~ +85℃
Storage Temperature	-25℃ ~ +60℃
Voltage (V)	48
Waterproof	IPX6
Weight (Kg)	3.8
Q-factor (mm)	147
Rotor speed (RPM)	1200
Gearbox reduction ratio	1:11
Transmission type	two-stage planetary gear speed increaser
Control mode parameters	sensorless FOC control/Hall-less (no Hall sensors)

## 1.2.1 Outline and Geometric Size





## 1.2.2 Surface



Shockproof black coating

## 1.2.3 Storage Information

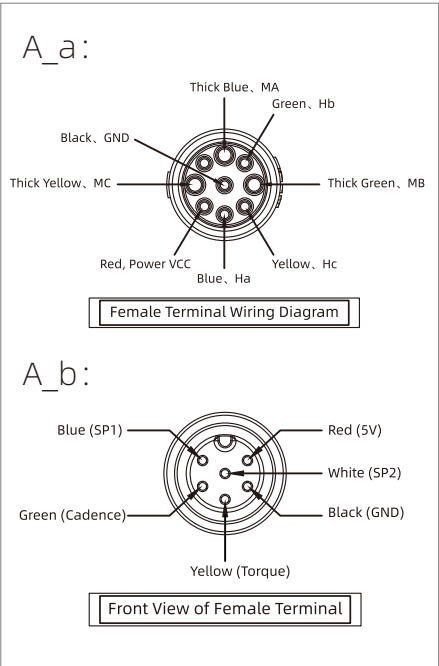
The pedecec should be stored in a ventilated dry room. Avoid storing the pedecec near strong magnetic objects.

# 1.3 DRIVE UNIT INSTALLATION

## 1.3.1 List of Tools to be Used

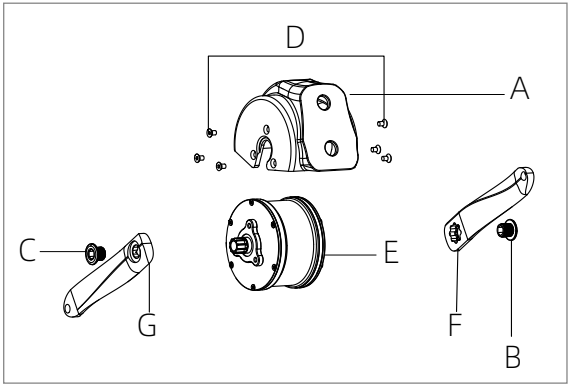
Use of the Tools	Tools
Motor Lifting Installation	 Internal hex wrench
Left & right crank arm lock-nuts	 Internal hex wrench

## 1.3.2 Cabling



- A The drive unit's 14-wire harness is divided into two circuits
- a Three-phase power lines (3 wires)  
Hall sensor control lines (5 wires)
- b Torque transmission lines (6 wires)

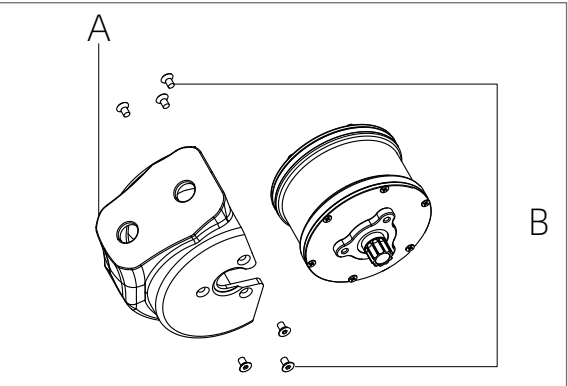
### 1.3.3 Chainless Generator Installation



- A Mounting bracket
- B Left M15 × 1.0 Crank Arm Screw
- C Right M15 × 1.0 Crank Arm Bolt
- D M6 × 14 Hex Socket Countersunk Screws (x6)
- E Chainless generator
- F Left crank
- G Right crank

- 1) Place the chainless generator into the mounting bracket, aligning the mounting holes on both sides. Insert M6 × 14 hex socket countersunk screws on the left and right sides. Tightening torque: 8 N·m.
- 2) Insert the left crank arm onto the left splined end of the chainless generator's spindle. Thread on the M15 × 1.0 crank arm fixing bolt and tighten to 45-50 N·m. The crank is compatible with the ISIS interface; alternative specifications are available upon request.
- 3) Insert the right crank arm onto the right splined end of the chainless generator's spindle. Thread on the M15 × 1.0 crank arm fixing bolt and tighten to 45-50 N·m. The crank is compatible with the ISIS interface; alternative specifications are available upon request.

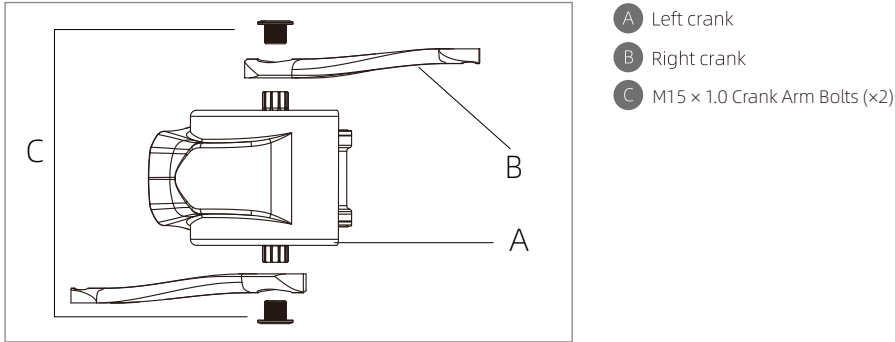
### 1.3.4 Motor Hoisting and Installation



- A Mounting bracket
- B M6×14 countersunk hex-socket screws (x6)

Place the chainless generator into the mounting bracket, aligning the mounting holes on both sides. Insert M6 × 14 hex socket countersunk screws on the left and right sides. Tightening torque: 8 N·m.

# 1.3.5 Crank Installation



Install the right and left crank arms onto their respective splines. Secure them using M15 × 1.0 crank screws, torqued to 45-50 Nm with an internal hex wrench, ensuring both crank arms are aligned. The crank is compatible with the ISIS interface; other interface options are available upon request.

# 1.4 MAINTENANCE

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- Maintenance must be carried out by authorized personnel with the correct equipment.
- Do not disassemble the motor.
- Do not use thinners or other solvents to clean the components. Such substances can damage the surfaces.
- Avoid water submerging, to keep the components protected.
- Avoid using high-pressure cleaning jets.
- For prolonged storage, turn off the battery and avoid storing near heat sources.