

07 Series motor technical manual

Product's name: Permanent Magnet brushless high speed DC motors for electric bicycles

Product's model: DGW07-FA

Product instruction

1.Name: Permanent Magnet brushless high speed DC motors for electric bicycles.

Product model: DGW07-FA

2. Application: electronic bicycle

3. Appearance (See picture)



4. Condition: temperature: $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$

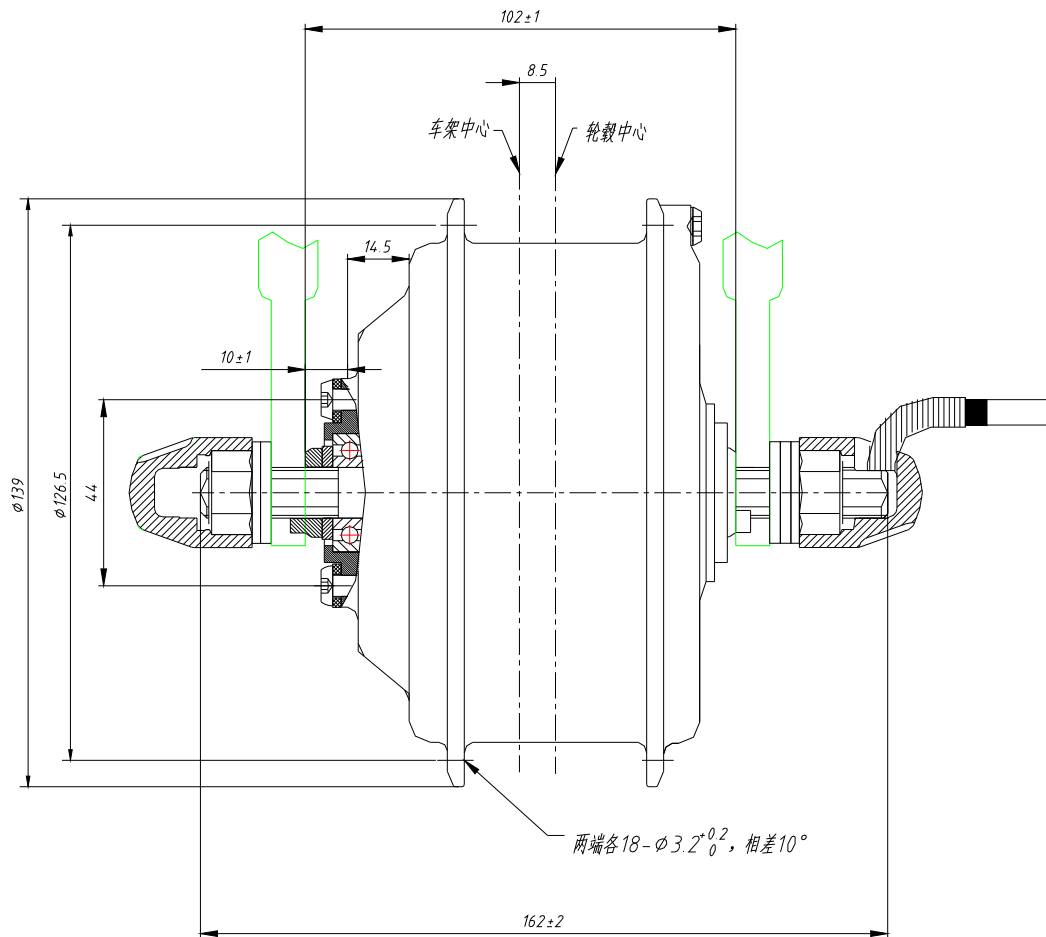
Atmosphere: altitude $\leq 1000\text{m}$

Relative humidity: $\leq 90\%$ at 25°C

II. Product explanation

1. Technical information

① Drawing:



Shaft length of motor: 162mm, fork size: 102mm

B. Cable length: L=200mm

② The surface of the motor is fast cutting, pure metal bright, no painting.

③ Main technical performance:

(voltage): 36V 直流 36V direct: 4.33

	(non-load)	(rated output)	(max output)	(max torque)
(speed)	265±5 % rpm	225±5 % rpm	176rpm	52 rpm
(current)	≤1.3A		21.2A (depend on controller)	23.6A(depend on controller)
(torque)			28N.m	43N.m
(output)		250W	527W	238W

	(non-load)	(rated loading)	(max output)	(max torque)
(efficiency)		≥78 %	69.3 %	28.1%
(condition)		S1 (S1 work condition)	(short lasting time)	(short lasting time)

3. Advantage of the motor

The rear-fork size is 102mm, it is same as the standard bike

- ② Brushless, Long life (bearing's life), Free maintenance
- ③ Small volume, Light weight, Great power, Simple construction
- ④ Excellent starting performance, No magnetic hysteresis damping energy consumption, Strong climbing capacity
- ⑤ No spark, No electric magnetic interference
- ⑥ High efficiency, Low electric power consumption, Long distance for driving
- ⑦ Much more economical for the higher performance
- ⑧ Superior water-proof

4. Attention:

- ① The motor should be stored under the dry and ventilated room, and can't be stored under moist, acidic and alkaline places. Please do not put the motor together with magnetic products
- ② The products shouldn't be overloaded for long time.
- ③ The water should be avoided inside the motor.

