# M-300 user's manual



**Caution:**

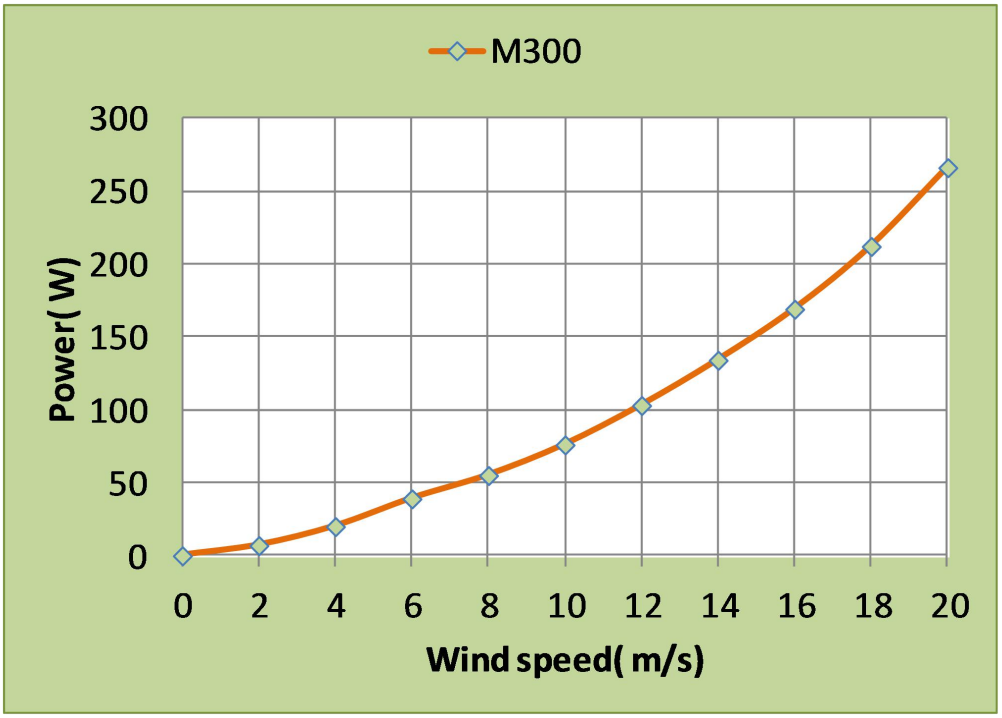
1. **Thank you for purchasing the M-series WTGS. Please refer to the manual before installation;**
2. **The installation should be done by the experienced technicians. Please refer to the manual strictly;**
3. **Do not open the generator or controller without instructions while doing the maintenance.**
4. **Please install the system under no-wind weather.**
5. **The series are street lighting wind generators and do not recommend for family power generation.**

# Jiangsu Shenzhou NewEnergy&Electricity Co., LTD

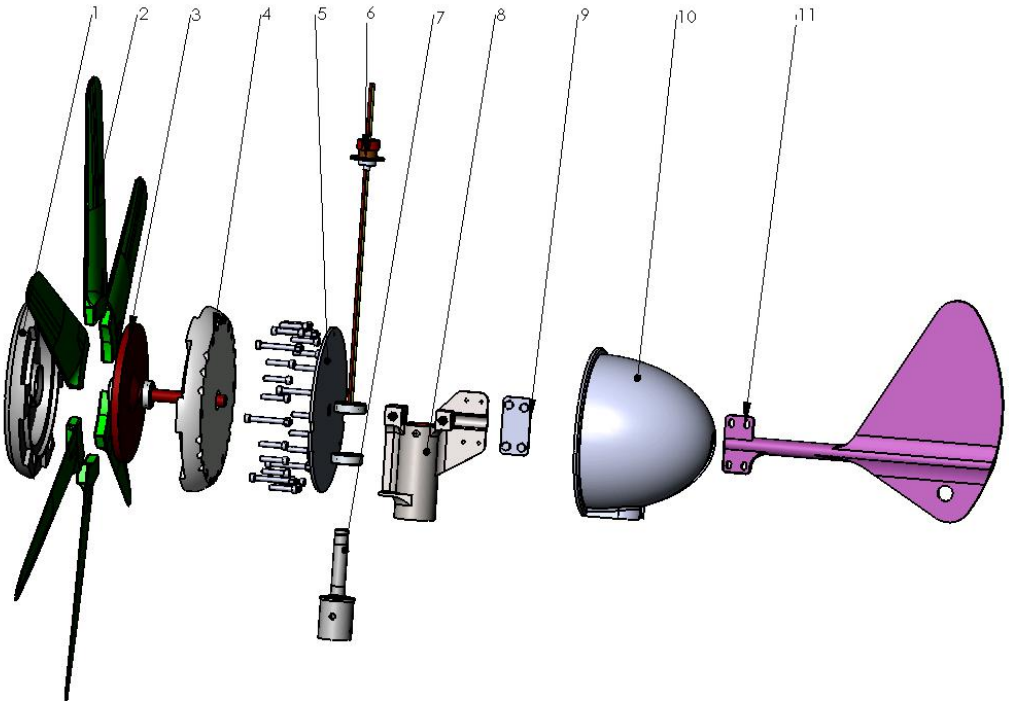
## 1. Technical Parameter

| **Model** | **M-300** |
|---|---|
| Rated Voltage（DCV） | 12 |
| Rated output（W） | 90 |
| Start-up wind speed （M/S） | 1 |
| Survival wind speed（M/S） | 35 |
| Rotor diameter（M） | 0.82 |
| Blade No. | 6 |
| Blade material | Reinforced fiber glass |
| Nacelle material | Aluminum |
| Controller | Built-in |
| Protection mode | Short circuit |
| Lifetime（years） | 15-20 |
| Packing form | carton |
| Protection grade | IP65 |

## 2. Power Curve



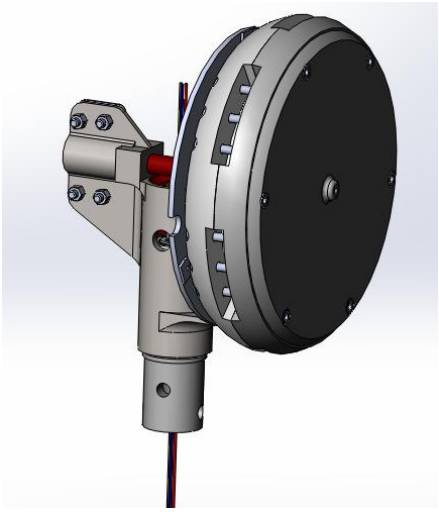

## 3. Structure



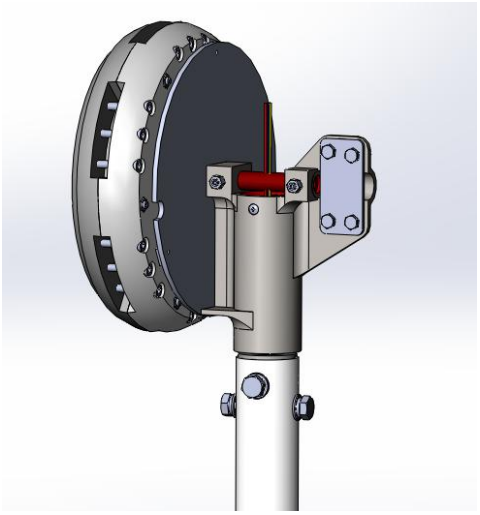
| No. | Description | No. | Description |
|---|---|---|---|
| 1 | Front cover | 7 | Gyro support |
| 2 | Blades | 8 | Gyro |
| 3 | Stator | 9 | Pressing plate |
| 4 | Back cover | 10 | Back nose cone |
| 5 | Clamp | 11 | Tail vane |
| 6 | Slip ring | | |

## 4. Installation

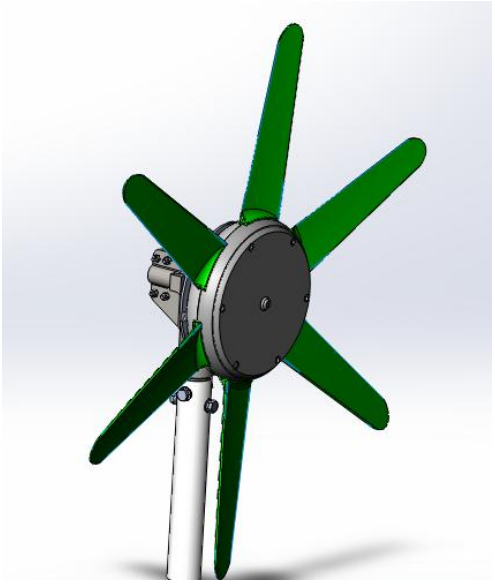
- Connect the cables with the terminal from generator. Please pay attention to the positive and negative. The cable will be elicited from the tower .



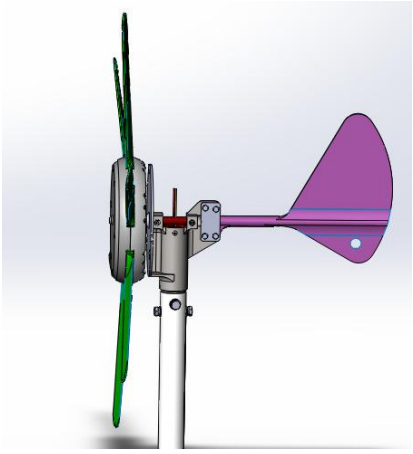
- Connect the small pole and tower with 4pcs of nuts (M 10*16 ).



- Install the blades to the generator with 18pcs of bolts (M6*28).



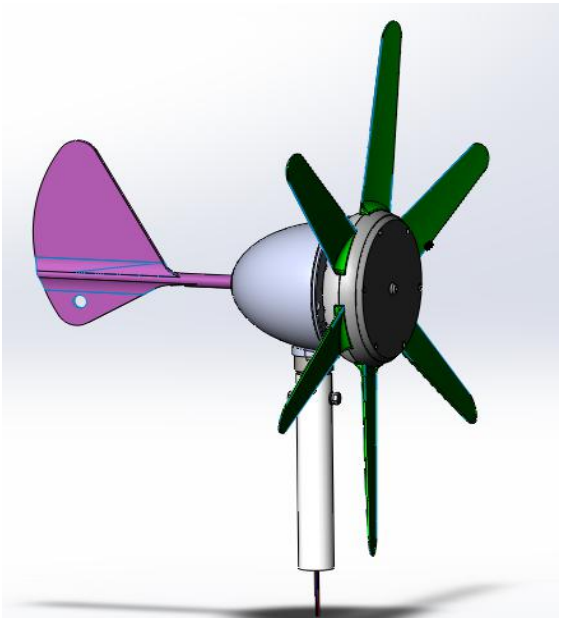
- Fasten the tail rod, rod plate and gyrator with 4pcs of screws (M6*30).



- Fasten the gyrator front cover to the back cover via 3pcs of bolts (M5*10).

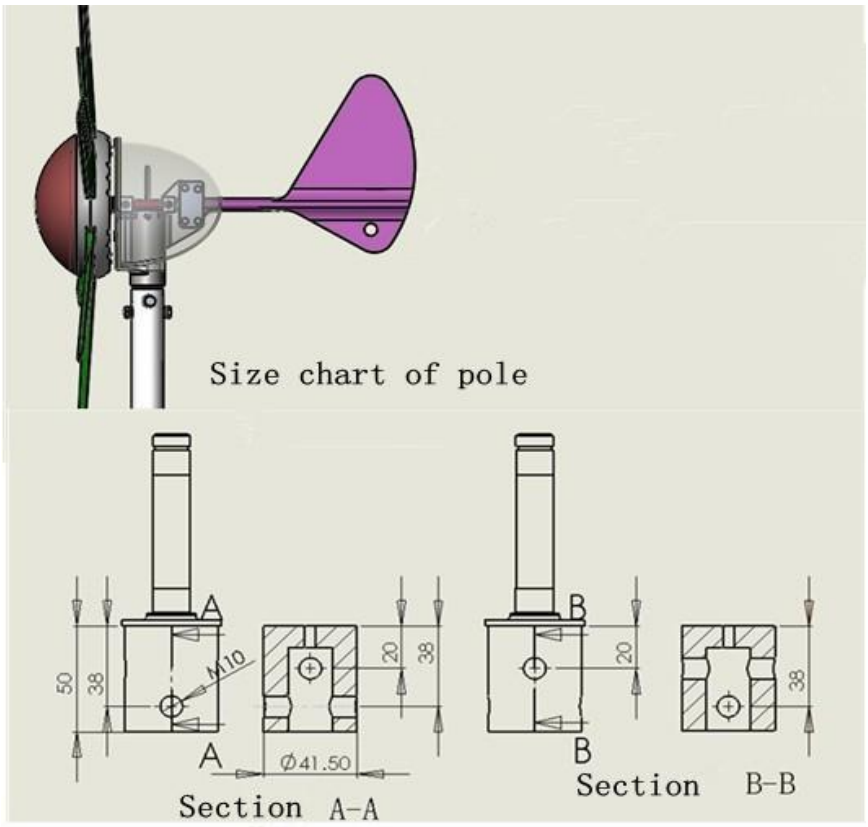


- Connect the cable elicited from generator to the battery. (Note: red for positive and black for negative)



## 3. Special note:

**Connection diagram between wind generator and pole**




1. Connect small pole and pipe(48*2.5mm diameter).

2.Drill 2pcs of symmetrical screw holes(12mm diameter) above a diatance of 20mm at the upper end of pipe.

3.Clockwise 90° in the hole above the distance of 20mm, and drill 2pcs of symmetrical screw holes(12mm diameter) above a diatance of 38mm at the upper end of pipe.

4.Fasten the pipe between wind generator and tower with 4pcs screws(M10).

**Note: The joints between wind generator and pole need a torque of 80nm. Fix with locking grain rubber in suitable condition.**