M-300 user's manual



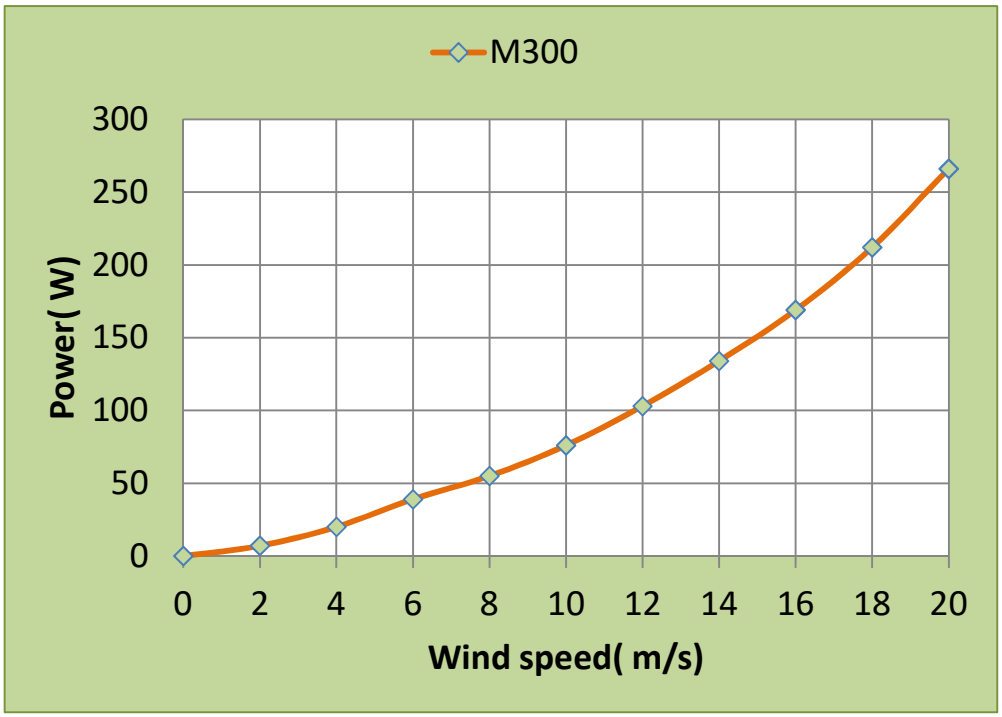
Caution:

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.**

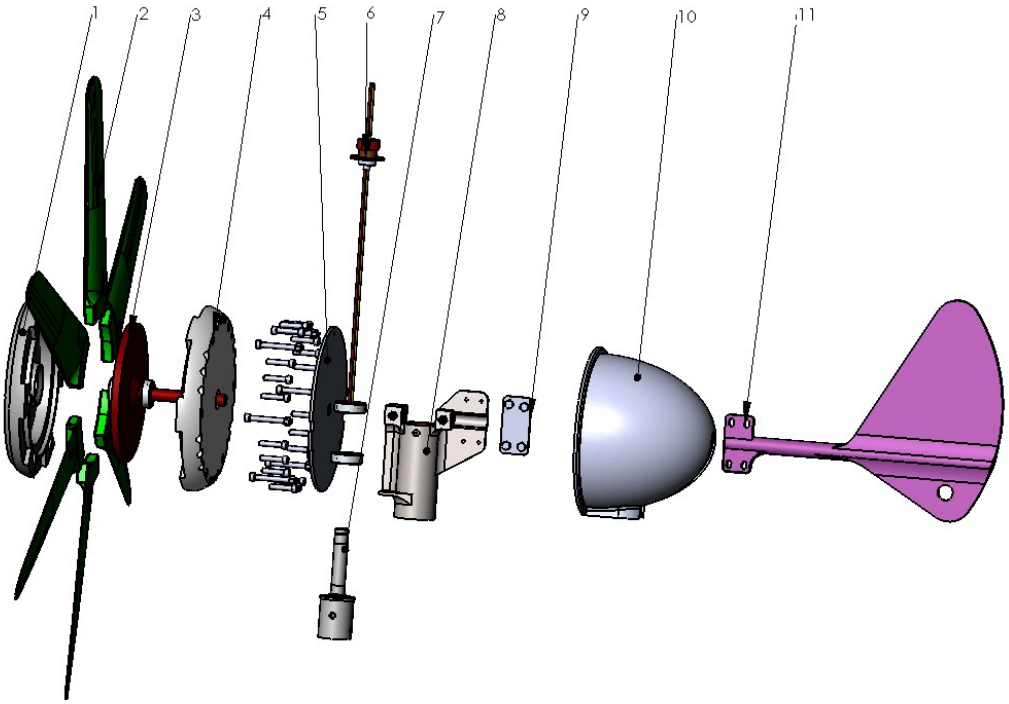
1. Technical Parameter

Model	**M-300**
Rated Voltage（DCV）	12/24
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
Controller	Built-in
Protection mode	Short circuit
Lifetime（years）	15-20
Packing form	carton
Protection grade	IP65
Net Weight(KG)	10.0

2. Power Curve



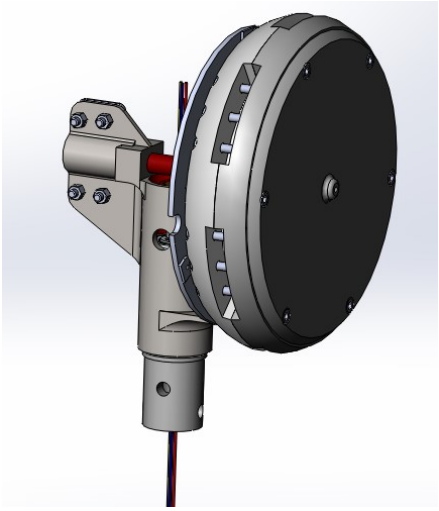
3. Structure



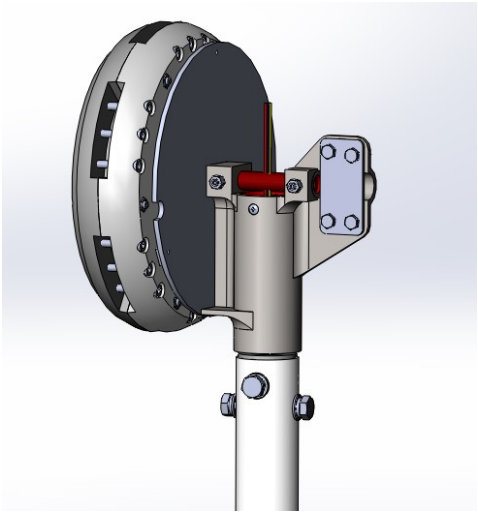
No.	Description	No.	Description
1	Front cover	7	Gyro support
2	Blades	8	Gyro
3	Stator	9	Pressing plate
4	Back cover	10	Back nose cone
5	Clamp	11	Tail vane
6	Slip ring		

4. Installation

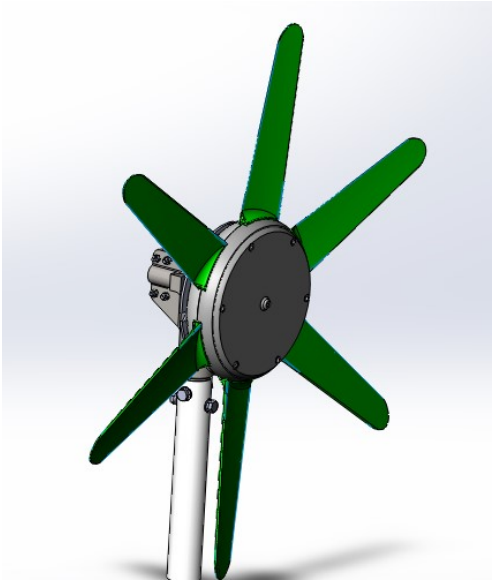
- Connect the cables with the terminal from generator. Please pay attention to the positive and negative. The cable will be elicited from the tower .



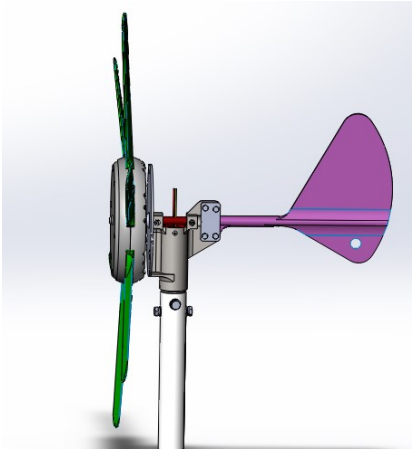
- Connect the small pole and tower with 4pcs of nuts (M 10*16).



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



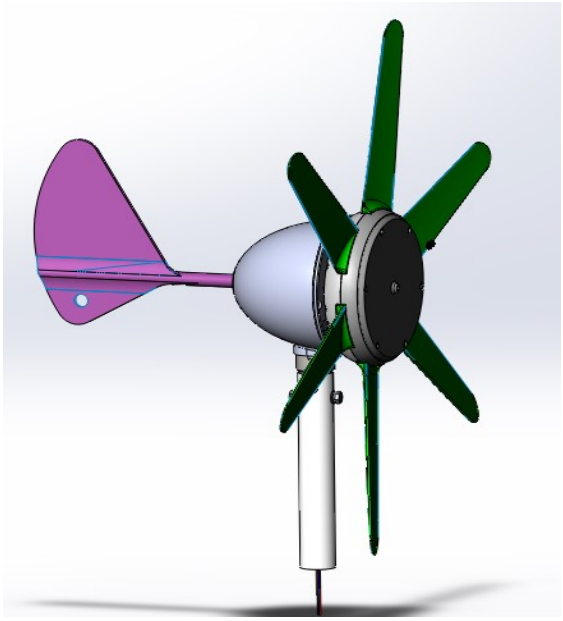
- Fasten the tail rod, rod plate and gyrator with 4pcs of screws (M6*30).



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

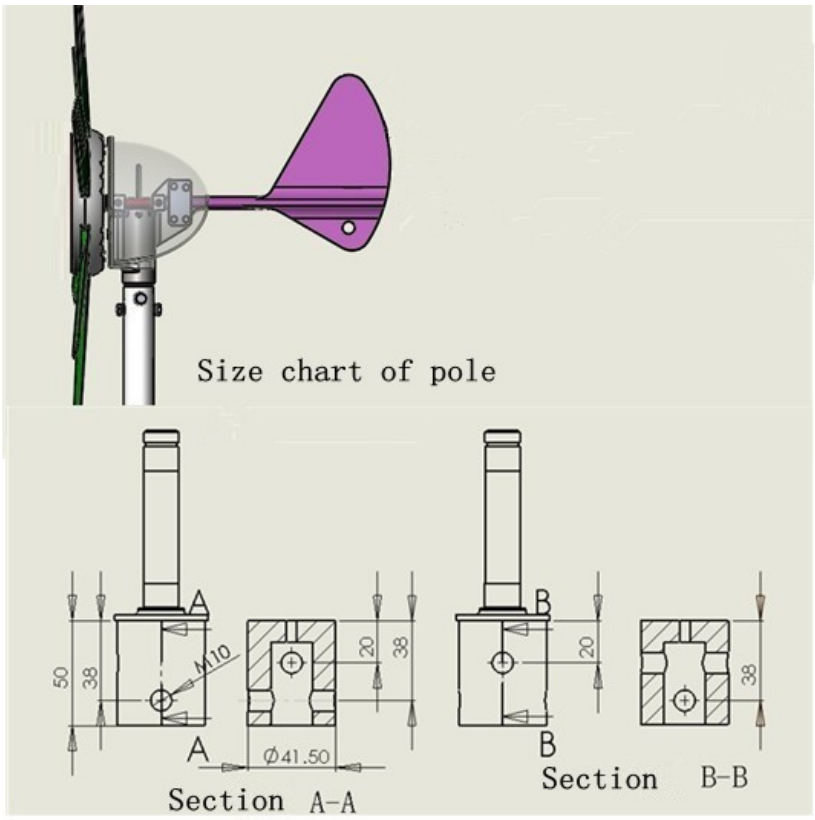


- Connect the cable elicited from generator to the battery. (Note: red for positive and black for negative)



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.