



## ***OWNER'S MANUAL***

*Aeolos wind turbine  
SINCE 1986*



***Aeolos-V 300W  
600W  
1KW  
2KW  
3KW  
5KW  
Grid-off***

AEOLOS

# TABLE OF CONTENTS

***Aeolos-V***

<b>Table of contents</b>	<b>1</b>
<b>Important safety instructions:</b>	<b>2</b>
<b>Section I : Aeolos-H 5-Year Limited Warranty</b>	<b>3</b>
1.1. Hardware Warranty	
<b>Section II Installation Procedure:</b>	<b>4</b>
2.1 Installation Procedure	4
2.2 Install the blade brace	4
2.3 Install the blades	5
2.4 Install the generator unit	5
2.5 Install onto the top of the tower	6
<b>Section III</b>	<b>6</b>
3.1 Instructions of operation paneler	6
3.2 Wiring diagram	7
<b>Warranty Register Card</b>	<b>8</b>






**Apply to:** Aeolos-V 300W  
 Aeolos-V 600W  
 Aeolos-V 1KW  
 Aeolos-V 2KW  
 Aeolos-V 3KW  
 Aeolos-V 5KW

Give our customer every satisfaction is our solemn commitment. Aeolos are ready to

serve you anytime.

## Important safety instructions:

—Read these instructions in their entirety before assembling, installing or operating your wind generator, and you will see the follow icons bellow:

 : <b>IMPORTANT</b>	Indicates instruction or advice that is critical for correct assembly or operation. Damage to equipment may result if not heeded.
 : <b>TIP</b>	Indicates instruction or advice that may simplify or ease task or operation.
 : <b>WARNING</b>	Indicates risk of severe injury or death or possible severe damage to equipment proceed with caution and follow instructions.

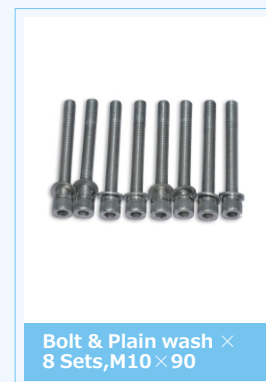
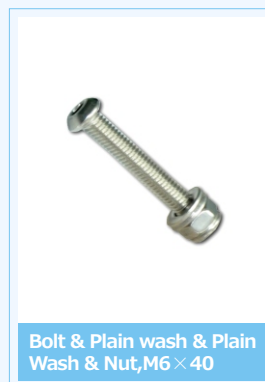
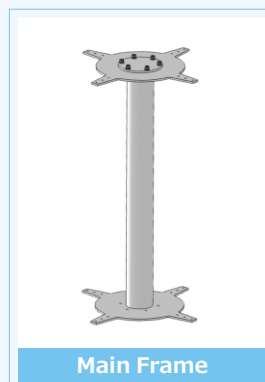
- 1) SAVE THESE INSTRUCTIONS. This manual contains important instructions that must be followed during assembly, installation and maintenance.
- 2) Read, understand and respect all warnings.
- 3) Do not install Aeolos on a windy day.
- 4) If unusual noise or operation is experienced, turn off machine and contact authorized service personnel.
- 5) During assembly and installation properly torque all fasteners.
- 6) Properly complete the Warranty Registration Card.
- 7) The generator must be installed in accordance with these manual and local and national building codes. Failure to comply with these manual and local codes may affect and possibly void your warranty.
- 8) Rotating blades is a serious mechanical hazard. So when installing no one can come into contact with the blades.
- 9) Observe wire size and fuse recommendations listed in the Wiring Section of this manual.

## Section I: Aeolos-H 5-Year Limited Warranty

### 1.1. Hardware Warranty

Your Aeolos Turbine is delivered partially assembled, when receiving the bale, please make sure all this parts below look good and on right quantity:

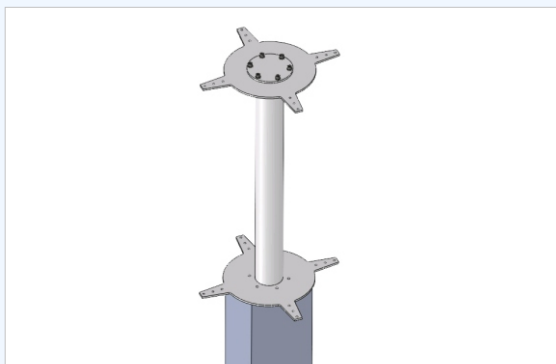
NO.	Name and quantity	Note
1	Blade × 3 set	Assembly
2	Main frame × 1 set	Assembly
3	Generator × 1 set	Assembly
4	Blade Brace × 8 sets	Assembly
5	Bolt & Plain wash & Plain Wash & Nut × 24 sets	M6×40
6	Bolt & Plain wash ×8 Sets	M10×90
7	Bolt & Plain Wash ×6 Sets	M6×16
8	Bolt & Plain Wash ×4Set	M8×35



## Section II Installation Procedure:

### 2.1 Installation Procedure

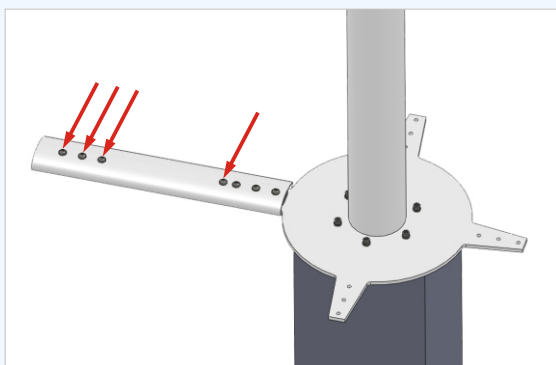
**Step1:** Find something with a platform on the top of it, which will be used to place the mainframe in the initial installation, as it shown in the picture below:



**! Note:** Make sure the out dimensions of the object you find don't exceed a 250-dimeter circle; otherwise it would affect the follow-up installation.

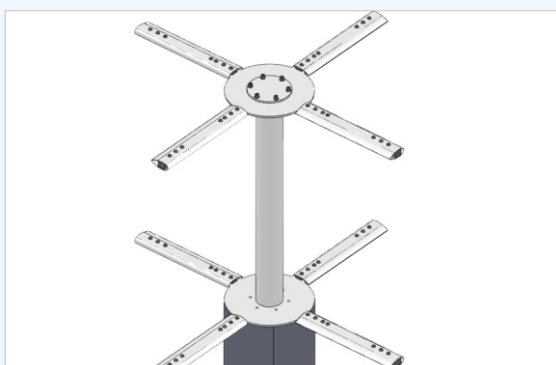
### 2.2 Install the blade brace

**Step2:** Install the Blade Brace (item 5), 8 sets, using the Bolt & Plain wash & Plain Wash & Nut M6×40 (item 4), 24 sets as it shown in the pictures below:



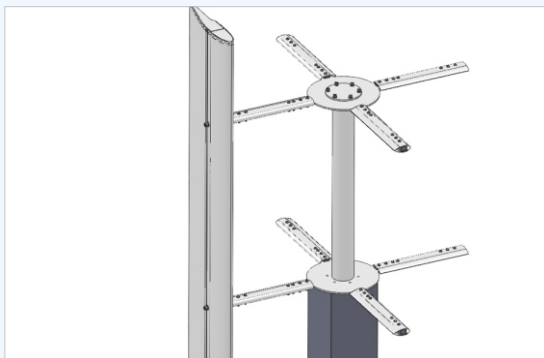
**! Note:** The four units with arrow on the top of them needn't to be unscrewed; you only need to deal with the rest three ones every Blade Brace.

The finished assembly is shown in the picture below:



## 2.3 Install the blades

**Step3:** Install the blades(item 1) ,4 sets, using the Bolt & Plain wash Bolt & Plain wash M10 ×90 (item 6),8 Sets as it shown in the pictures below:

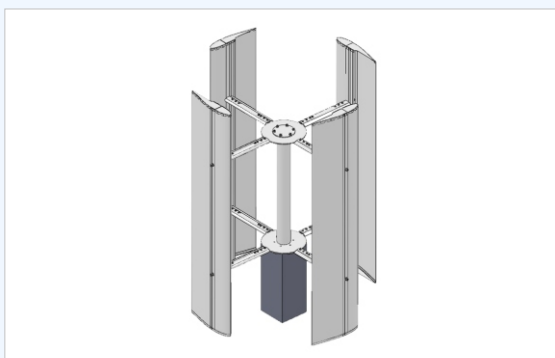


**⚡ Warning:** single blade is heavy enough to make the mainframe lost balance, so find someone to hold it and keep stabilized during the installation

The thick edges of the blade and the corresponding two Blade Brace must be kept at the same installing direction to achieve the designed aero performance.

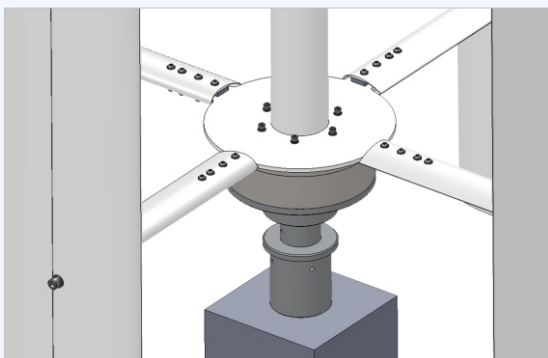
**! Note:** Seen from the top, the generator will spin counter-clockwise when installed as it shown in the picture above.

The finished assembly is shown in the picture below:



## 2.4 Install the generator unit

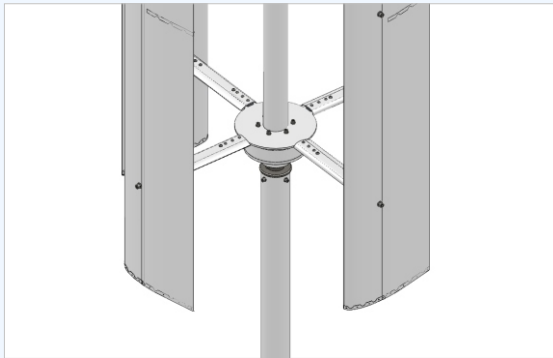
**Step4:** Fit the Bolt & Plain Wash ×6 Sets through the 6 tolerance holes in the bottom flange of the Mainframe, and fasten them into the top cover of the Generator Unit. The finished assembly is shown in the picture below:



## 2.5 Install onto the top of the tower

**Step5:** Now we begin to move the Generator to the Tower.

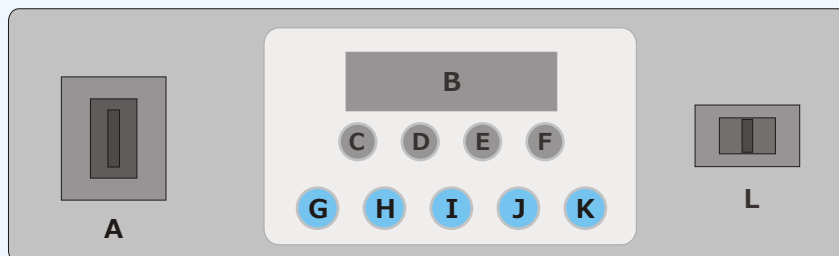
Put the cylinder at the bottom of the generator unit into the Tower Tube, and adjust them until the four tolerance holes in the tube align the threaded hole in the cylinder. Then use the Bolt & Spring Wash & Plain Wash M8×35 4Sets(Item 8) to fasten them.



**Note:** The structure Main Frame(item 2) is designed to lift the whole Assembly.

## Section III Instructions of wiring between wind turbine and the grid-off inverter-Integrated Controller

### 3.1 Instructions of operation panel



<b>A</b>	Brake breaker	Lock on the Rotor or not. *Note1
<b>B</b>	Four digital tube display	Paged display the parameters of the parts of the controller
<b>C</b>	Wind Indicator	Brighten while B is displaying the input voltage of the wind generator
<b>D</b>	Battery Indicator	Brighten while B is displaying the battery voltage.
<b>E</b>	Output Indicator	Brighten while B is displaying the charging current.
<b>F</b>	Brake Indicator	Indicator light of the Electronic Brake.
<b>G</b>	Button "Menu"	Selecting from C, D, and E in turns.
<b>H</b>	Button "SET"	Use for setting parameter before delivering, customer needn't use them.
<b>I</b>	Button "+"	
<b>J</b>	Button "-"	
<b>K</b>	Button "BRAKE"	Button of Electronic Brake
<b>L</b>	Battery switch	It will be "OFF" while the battery is connected, to prevent damaging spark generated in the controller.

**Note1:** Do not operate it suddenly while the rotor is high-speed rotating, or the generator shall subject some damage caused by the quick stop of the rotor.

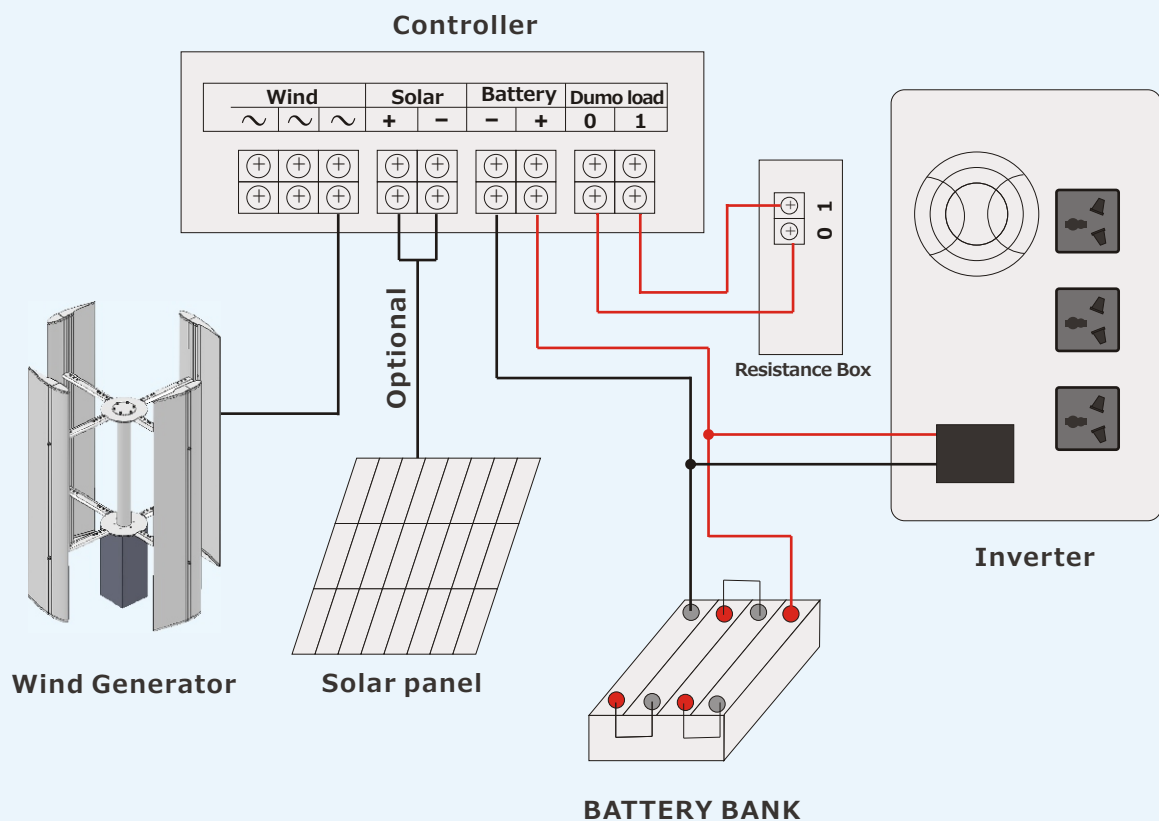
### 3.1.1

After completing all the connection, shut off the mechanical brake, turn on the switch of batteries, then it will display the voltage of wind generator. You can read other data by pressing the page turning bolt.

### 3.1.2

If data setting is needed, you must power off the controller totally, press "+, -" buttons at the same time, and then you can come in the setting page by charging the controller power supply, set up the drainage voltage and charging voltage of wind generator, press the "set" button to save and back to the normal page after completing the setting.

## 3.2 Wiring diagram



## Aeolos Wind Energy Congratulations on your purchase!

Dear Aeolos Wind Turbine Owner,  
Thank you for your purchase of Aeolos wind turbine. You have purchased one of the most advanced wind turbines in the world! We believe you will find it easy to install and are confident you will experience years of dependable service from it.

Before going any further, please complete the **Warranty Registration Card** or **Warranty Service Card**. and return it by E-Mail or letter. **(Note: Aeolos Wind Energy does not sell or distribute your personal information to any third party. We understand and respect your privacy.)**

If you have any questions or comments, we would like to hear from you. Please call during working hours (Monday-Friday 8:00am to 5:00pm London Standard Time).

Our number is +44 208 242 1884. Or E-mail us: sales@windturbinestar.com  
Again, welcome to our family and thank you for investing in the future of wind energy with Aeolos.

Sincerely

### Note1: Warranty Register Card for the generator's first run

Warranty Register Card	
Client Name	
Model Number	
Installation Date	
Installation location	
Other Requirements	Show us three photos of the working generator's appearance by return

Warranty Service Card		
Client Name		
Model Number		
Installation Date		
Installation Location		
Application Procedure	Tel. Number	
	Email	
Problem Description		
Total Work Period		
Other Requirements	Show us some Photos of the generator's current state by return	