FREQUENTLY ASKED QUESTIONS

PRE-INSTALLATION QUESTIONS	ANSWERS
How do Tumurly® Wind Turbines work and for what purpose are they being used?	Tumurly® Wind Turbines are being used to generate electricity from wind energy. Appropriate wind speed must be available at the location where the wind turbines will be installed.
What are your wind turbine models?	Our Horizontal Axis Wind Turbines are called Turbo Series. Models are available in the 600W – 5000W power range; **Turbo600, Turbo1200, Turbo2500, Turbo3300, Turbo5000** Our Vertical Axis Wind Turbines are called Vortex Series. Models are available in the 1000W – 5000W power range; **Vortex1.0, Vortex2.0, Vortex3.0, Vortex5.0**
What are your application types?	Tumurly® Turbo and Vortex Series Wind Turbines are being installed as Off-Grid (With Battery) and On-Grid (Without Battery). In battery-powered applications, the wind turbine charges the batteries over the charge controller. The user uses the electrical energy accumulated in the batteries. In the On-Grid applications, the wind turbine delivers the electrical to the system or Grid via the On-Grid Wind Inverter. In this application, Grid electricity must be available.
There is no Grid in my location, can I build a wind turbine system?	If in your current location the wind speed is 4m/s and above, you can install an Off-Grid wind system with batteries. The power of the wind turbine to be installed, the number of your batteries and the power of your inverter can be calculated and a system that is suitable for your consumption can be established.
Can the Wind Turbine generate electricity at night and in the rain?	As long as the wind turbine receives suitable wind, it can produce electricity day and night, summer and winter.
I have an Off-Grid Solar Energy System, can I integrate a Wind Turbine into the existing system?	Yes, you can easily integrate a Tumurly® Wind turbine into your existing solar system. You can connect the wind turbine to your batteries via the Tumurly® Charge Controller. Thus, the wind turbine will charge your batteries when the wind speed is sufficient.
What types of batteries can Tumurly® Wind Turbines and Charge Controllers charge?	Tumurly® Charge Controllers can charge any kind of batteries suchn as Lithium Ion, Gel and Acid Batteries with 12/24 and 48V Voltage Levels
Do Tumurly® Charge Controllers have automatic braking feature?	Tumurly® Charge Controllers have a thyristor-controlled automatic braking system. The automatic braking system activates when the batteries are full and in case of excessive wind and slows down the turbine.
How can I monitor the electricity production of my wind turbine? Is there an Remote Monitoring System?	Yes, Tumurly provides Remote Monitoring Sistem for wind turbines : **monitoring.tumurly.com** .The Turbo and Vortex series wind turbines that being manufactured by Tumurly® Engineering have advanced remote monitoring systems. Due to this feature is being sold optionally, you can contact your authorized dealer in case of ordering .

AFTER INSTALLATION QUESTIONS	ANSWERS
There is wind, but the blades of the turbine are not turning.	First of all, it is not possible for a properly installed turbine not to rotate in sufficient wind. For that reason; 1. Make sure the wind speed is 3 m/s or more. (except instantaneous winds) 2. Check the cables coming from the turbine. The cables must not touch each other or any metal. If the cables are damaged or come into contact with any metal during assembly, the turbine may not turn. 3- Make sure that the 'Manual Braker' on the controls is in the '0' position. Because '1' is the manual braking position. 4- Check the voltages of your batteries. When your batteries are full, the system may have braked automatically. 57.5V and above braking mode for 48V systems. For 24V systems, 27V and above is the braking mode. 5- Disconnect the cables from the turbine from the Charge Controller and make sure that they do not come into contact with each other. 6- Make sure the turbine mast is positioned at a 90 degree angle to the ground. 7- Perform a short circuit test on the cables coming from the turbine.
The turbine is spinning but the Charge Controller display shows '0' amperes and watts.	1. Since the wind speed was not sufficient, the rotation speed did not reach the charging level. Please measure the wind speed. It should be at least 3-4 m/s. (Except instantaneous winds) 2. Perform a voltage test on the cables coming from the turbine. Make sure voltage (AC) is coming from all 3 wires.
The Wind Turbine is turbing but producing little Electricity.	Tumurly Wind Turbines are being tested many times in the Factory. Therefore, the thought of that the turbine is gnerating less electricity is not correct. The electricity production of wind turbines is directly proportional to the speed of the wind. But wind speed is not the only factor. The high voltage of your batteries, the quality of your batteries (charging capacity), the quality and thickness of the cables you use, etc. also affects production. Therefore, pay attention to the quality and correct selection of all the materials you use.
Wind Turbine is shaking. What should I do?	Correct installation could not be carried out. Please look at the installation guide and make the installation again.
I think that the Wind Turbine is discharging the batteries.	It is not possible for turbines to consume energy from batteries.
The turbine is turning very fast, but it is not producing much electricity I want.	Tumurly Turbo Series turbines are high speed wind turbines. The speed difference between 200 rpm and 1000 rpm is very difficult to observe with the human eye. Therefore the idea that it spins fast is often not true.
I cannot monitor the parameters on the remote moritoring server. What should I do?	Check the wifi or Ethernet connection of the Charger Controller and make sure that there is an internet connection is available.