

WIND GENERATOR KIT

*Complete Set Including All Accessories
500 watts rated at 12,5 m/s (= 28 mph)
6 meter tower (= 20 ft.)*

FOR CHARGING BATTERY BANKS AND OPERATING 110/230 VOLT DEVICES

1. Question: WHERE CAN THE WIND GENERATOR KIT BE USED AND APPLIED?

Answer: For charging 12 / 24 / 36 volt battery banks and energy supply to/for:

- Garden houses (allotment houses)
- Weekend, holiday and mountain huts, hunting lodges
- Camping, "outdoor"-applications
- Caravans
- Boats, sailing yachts
- Green houses
- etc.

2. Question: WHAT ARE THE TYPICAL APPLICATIONS OF THE WIND GENERATOR KIT?

Answer: For self-sustaining power supply to/for:

- Indoor and outdoor lighting
- Water pumping systems
- Telecommunication, satellite units, televisions, refrigerators, ventilators
- etc.

3. Question: WHAT IS THE MAXIMUM OUTPUT OF THE WIND GENERATOR?

Answer: The rated output is 500 watts at 12.5 m/s wind speed (= 28 mph). The maximum output is 900 watts.

4. Question: WHAT KIND OF BATTERY COULD BE USED IN COMBINATION WITH THE WIND GENERATOR?

Answer: One or more (connected) lead acid or similar type batteries can be used.

5. Question: AT WHICH WIND SPEED DOES THE WIND GENERATOR START TURNING?

Answer: It starts turning at a wind speed of 0.9 m/s (meters per second) (= 2 mph).

6. Question: WHAT IS THE AVERAGE WIND SPEED?

Answer: Worldwide the average wind speed is about 4.5 m/s (meters per second) (= 10 mph)

7. Question: WHICH COMPONENTS ARE NECESSARY FOR THE ASSEMBLY OF THE WIND GENERATOR?

Answer: ALL required components for the assembly and installation of the wind generator are included in the package (with the exception of a battery and hand tools)!

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8. Question: WHICH ADDITIONAL ACCESSORIES ARE NEEDED FOR OPERATING THE WIND GENERATOR?

Answer: For charging batteries it requires the usage of a controller which can be supplied optionally. Furthermore, it is recommended to use an inverter to avoid the over-discharging of the battery. The inverter also converts the DC from the battery into AC, for various applications using 110/230 volt devices.

9. Question: UP TO WHICH HEIGHT MAY THE WIND GENERATOR BE INSTALLED? ARE THERE ANY RESTRICTIONS ISSUED BY THE BUILDING AUTHORITIES?

Answer: There are different laws depending upon where you live; however, it is recommendable to inquire at the responsible building authority!
Remark: Our wind generator has a total height (when using all tower sections) of 7,3 m (= 24 ft.).

10. Question: WHAT IS THE NOISE LEVEL OF THE WIND GENERATOR IN OPERATION?

Answer: The measured noise level is +/- 45 dB at a wind speed of 7 m/s (= 15,5 mph).

11. Question: DOES THE WIND GENERATOR TURN ITSELF AUTOMATICALLY INTO THE WIND?

Answer: Yes. This is regulated by the tail.

12. Question: WHAT HAPPENS IN CASE OF EXTREMELY STRONG WIND OR STORMS?

Answer: The unit has been designed with an "auto-furl" mechanism (speed control) in order to resist strong winds up to 150 km/h (= 93 mph) . The automatic furling system adjusts the tail according the wind speed and turns the rotor away from the wind. If it is known that a storm is coming, it is recommended to lower (lay down) the wind generator unit.

13. Question: WHAT IS THE EXPECTED SERVICE LIFE AND WARRANTY OF THE WIND GENERATOR?

Answer: The expected service life of the wind generator is 10 years. The manufacturer's warranty is 2 years, provided that the wind generator has been installed according to the assembly instructions and is maintained on a regular basis.