



**Wind & Solar**  
Renewable Energy Experts

Distributors of:  
**REGEN**<sup>TM</sup>  
RENEWABLES



ReGen_WWS04-12_N00D	
Rated Power	400W
Maximum Wind Turbine Input Power	600W
Rated Battery Voltage	12V
Rated Solar input power	150W
Display Mode	LCD
Dumpload Start Voltage	13.5V
Complete Discharge Voltage	14.5V
Wind Turbine Brake Current	40A
Battery Under Voltage Shutoff	10.8V
Battery Under Voltage Recovery	12V
Input Over Voltage Shutoff	16V
Light Control On Voltage	1V
Light Control Off Voltage	1.5V
Rated Output of Load 1 and Load 2	10A
Load 1 Output Control Mode	Light Control On and Light Control Off
Load 2 Output Control Mode	Light Control On and Time Control 5 Hours Off
Dumpload Control Mode	PWM(Pulse Width Modulation)
Protection Level	IP53 (Indoor)
Quiescent Current	≤ 20mA
Display Content	Battery Voltage, Wind Turbine Voltage, PV Voltage, Wind Turbine Current, PV Current, Wind Turbine Power, PV Power, Over Voltage, Under Voltage, Over Load, Short Circuit, Night ect status
Protection Functions	Solar reverse charge protection, Solar reverse connection protection, Battery over charge protection, Battery over discharge protection, Battery reverse connection protection, Over load protection, Short circuit protection, Lighting Protection, Wind turbine current limiting, Wind turbine current limiting, Wind turbine automatic brake and manual brake.
Battery Support	Lithium, Deep Cycle, Lead Acid, Gel and AGM
Ambient Temperature	-20~+55°C
Ambient Humidity	0~93%, (Without Condensation)
Packaging Dimensions (L×W×H)	14cm x 15cm x 8cm
Net Weight	1.9 kg
Brochure updated	2021-01-18

# Warranty

Wind and Solar (Pty) Ltd provides a carry-in Limited Warranty from the date of shipment. The Warranty period on various products are as follows:

## **Wind Turbines:**

The ReGen LX series Turbines have a 3 Year carry-in warranty from date of shipment.

The ReGen S, M and L Series Turbines have a 2 Year carry-in warranty from date of shipment.

## **Controllers:**

ReGen Turbine controllers all have a 1 Year carry-in warranty from date of shipment.

The warranty covers all parts of the wind turbine damaged within the warranty period and free replacement part/s. A complete wind turbine will only be provided after remote troubleshooting and analysis of the problem by Wind and Solar (Pty) Ltd technicians. Wind and Solar (Pty) Ltd holds the right to provide the most appropriate solutions in terms of parts, complete turbine replacement & by means of shipment.

## **Conditions:**

1. We warranty this product against defects in materials and workmanship from the date of purchase and will repair or replace any defective unit when directly returned, postage paid, to Wind and Solar (Pty) Ltd. This warranty will be considered void if the unit has suffered any obvious physical damage or alteration either internally or externally.
2. This warranty does not cover damage arising from improper use, such as plugging the unit into unsuitable power sources, attempting to operate products that require excessive power consumption, or use in unsuitable environments.
3. This warranty does not cover Wind turbines that have not been installed, operated, repaired, or maintained in accordance with instructions supplied by Wind and Solar (Pty) Ltd.
4. This warranty does not cover Wind turbines or wind controllers that have been:
  - a. Altered and/or modified in any way.
  - b. Damaged caused by abnormal physical, thermal or electrical stress, negligence, misuse.
- c. Damage caused by force majeure events like lightning, storms, hurricane force winds, flood, earthquake etc.
- d. Damage caused using any unauthorized controller, inverter or tower not provided or confirmed by Wind and Solar (Pty) Ltd.

This is the only warranty the company makes. No other warranties express or implied including warranties of merchantability and fitness for a particular purpose. Repair and replacement are your sole remedies and the company shall not be liable for damages, whether direct, incidental, and special or consequential, even if caused by negligence.

Further details about our warranty conditions can be found at [www.windandsolar.co.za](http://www.windandsolar.co.za)

### **Liability Exclusion:**

The manufacturer shall not be liable for damages, especially on the battery, caused by use other than as intended or as mentioned in this manual or if the recommendations of the battery manufacturer are neglected. The manufacturer shall not be liable if there has been service or repair carried out by any unauthorized person, unusual use, wrong installation, or incorrect system design.

### **Warranty Claim Procedures:**

In order to get service under this warranty, the customer must provide Wind and Solar (Pty) Ltd with the following information for analysis:

1. Serial number of wind turbine, running time & malfunction date.
2. Detailed description of the defects and corresponding test results which have been done in accordance with the troubleshooting Wind and Solar provide.
3. A Wind and Solar technician may ask for some extra testing in order to identify the defects so that solutions can be provided promptly and precisely. The installer or customers are liable to conduct these extra tests and provide referable test results.
4. Installation pictures (showing details of the installation location and its surrounding).
5. Damaged machine pictures and/or videos.
6. A Wind and Solar technician will provide a final solution according to defect description and the test results of the troubleshooting.

**NOTE:** The Customer is responsible for shipping the defected or damaged part to Wind and Solar for repair(s) if needed. Wind and Solar will then repair or replace the items covered by the warranty for free and ship it back to the owner at Wind and Solar's cost. If no defective items are shipped back to Wind and Solar but needs replacement - Wind and Solar will provide the part for free but shipping will be at the customer's expense.