



Original Certification: 02/14/2013  
Expiration Date: 02/14/2018  
Certification must be renewed annually.

Certification Number: **SWCC-10-16**

This Certificate is issued to:

**Eveready Diversified Products (Pty) Ltd**  
**T/A Kestrel Renewable Energy**  
Eveready Road, Struandale  
Port Elizabeth, South Africa  
[www.kestrelwind.co.za/](http://www.kestrelwind.co.za/)

For the wind turbine model:

**Kestrel e400nb**

This Certificate represents that the above-identified Small Wind Turbine (SWT) is in conformance with the AWEA *Small Wind Turbine Performance and Safety Standard* (AWEA Standard 9.1 – 2009).

Changes to the Small Wind Turbine system design are to be approved by ICC-SRCC. If changes are made to the SWT without approval, this Certificate is not valid and is not in effect.

The wind turbine specifications relevant to this Certificate are provided on the following page.

*Shawn Martin*

Director of Technical Services



Please verify certification is active on the ICC-SRCC website.

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Certification Number: SWCC-16-01

**Wind Turbine Specification:**

**Turbine Parameters**

Manufacturer.....	Eveready/Kestrel Renewable Energy
Model.....	Kestrel e400nb
Power Form .....	240 VAC, 1-phase, 60 Hz
Rotor Diameter .....	4.0 m
Rotor Swept Area .....	12.6 m <sup>2</sup>
Cut-In Wind Speed .....	4.0 m/s
Cut-Out Wind Speed.....	N/A
Maximum Power .....	3,025 W
Maximum Voltage .....	550 VDC, unloaded generator output
Maximum Current .....	25 ADC, short circuit generator output

**Turbine Ratings**

AWEA Rated Annual Energy @ 5 m/s .....	3,930 kWh
AWEA Rated Sound Level .....	55.6 dB(A)
AWEA Rated Power.....	2.5 kW @ 11 m/s
Peak Power .....	3.0 kW @ 19.5 m/s

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## Design and Duration

Turbine design and duration test comply with AWEA Standard 9.1 – 2009 for an IEC Class II SWT with an average wind speed ( $V_{ave}$ ) of 10 m/s and reference wind speed ( $V_{ref}$ ) of 50 m/s.

As a result of the particular wind distribution that occurred during the test period, it was not possible to demonstrate IEC Class I wind conditions. The turbine duration test complies with AWEA Standard 9.1 – 2009 for an IEC Class II SWT with an average wind speed ( $V_{ave}$ ) of 8.5 m/s and reference wind speed ( $V_{ref}$ ) of 42.5 m/s.

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