



SMALL WIND  
CERTIFICATION  
COUNCIL™

# ICC-SWCC™ CERTIFICATION SWCC-10-12



## Small Wind Turbine Certification Program

**Certification Number: SWCC-10-12**  
**Original Certification Date: Nov. 16, 2011**  
**Expiration Date: Dec. 1, 2021**  
*Certification subject to renewal annually.*

[www.smallwindcertification.org](http://www.smallwindcertification.org) (888) 422-7233 3060 Saturn St., Suite 100, Brea, CA 92821 USA

*A Program of the ICC Evaluation Service (ICC-ES)*

**Program:** This wind turbine has been evaluated and certified by the Small Wind Certification Council (ICC-SWCC™), an ISO/IEC 17065 accredited Certification Body, in accordance with the Small Wind Turbine Certification Program, as defined in *ICC-SWCC Rules for Wind Turbine Listing Reports*. This award of certification is subject to all terms and conditions of the current SWT Program Agreement and the documents incorporated therein by reference. This document must be reproduced in its entirety.

**Products:** Small Wind Turbines—electricity-producing wind turbines with a swept area up to 200 m<sup>2</sup>  
**Reference Standard:** AWEA Small Wind Turbine Performance & Safety Standard (AWEA 9.1–2009)

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**Listee:** **Bergey Windpower Company** [www.bergey.com](http://www.bergey.com)  
2200 Industrial Boulevard (405) 364-4212  
Norman, OK 73069, USA

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**Model:** **Excel 10** (240 VAC, 1-phase, 60 Hz)

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Changes to the design of this wind turbine are to be approved by ICC-SWCC. If changes are made to the turbine without approval, this Certificate is not valid.

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

*Shawn Martin*

*Vice President of Technical Services, ICC-SWCC*

# ICC-SWCC™

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### Wind Turbine Specification:

#### Turbine Parameters

Manufacturer .....	Bergey Windpower Co.
Model .....	Excel 10
Power Form .....	240 VAC, 1-phase, 60 Hz
Rotor Diameter .....	7.0 m
Rotor Swept Area .....	38.5 m <sup>2</sup>
Cut-In Wind Speed .....	2.5 m/s
Cut-Out Wind Speed .....	N/A
Maximum Power .....	12.7 kW
Maximum Voltage .....	480 VAC to inverter 264 VAC from inverter
Maximum Current .....	40A AC to inverter 55A AC from inverter

#### Turbine Ratings

AWEA Rated Annual Energy @ 5 m/s .....	13,800 kWh
AWEA Rated Sound Level .....	42.9 dB(A)
AWEA Rated Power .....	8.9 kW @ 11 m/s
Peak Power .....	12.6 kW @ 16.5 m/s

#### 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 8.5 m/s and reference wind speed ( $V_{ref}$ ) of 42.5 m/s.