



# ICC-SWCC™ CERTIFICATION SWCC-11-04

## Small Wind Turbine Certification Program

Certification No: SWCC-11-04

Issued: June 17, 2013

Expiration Date: July 1, 2022

*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* and the standards below.

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

---

**Listee:** **SD Wind Energy Ltd.**

Warhead, Stewarton  
Ayrshire, KA3 5LH  
Scotland  
United Kingdom

[www.sd-windenergy.com](http://www.sd-windenergy.com)

+44 (0)1560 486 570

---

**Model:** **SD6** (240 VAC, 1-phase, 60 Hz)

### Conditions of Certification:

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.

1. The turbine listed in this ICC-SWCC certification has been evaluated to the AWEA 9.1-2009 standard and has been found to comply in accordance with the *ICC-SRCC Rules for Wind Turbine Listing Reports*. It is valid between the date of issuance and expiration and is subject to annual renewal. Certification validity should be confirmed on the ICC-SWCC website at [www.smallwindcertification.org](http://www.smallwindcertification.org)
2. Performance ratings are provided in accordance with the methodologies and conditions established by the AWEA 9.1 standard. Actual results will vary based on the specific usage, installation and local environmental conditions.
3. The certified turbine must be installed in accordance with the manufacturer's published installation instruction and applicable codes. Certification does not address the turbine tower, foundation or the electrical safety.
4. Wind turbine manufactured by SD Wind in Scotland under a quality control program subject to periodic evaluation in accordance with the requirements of ICC-SWCC.

*Shawn Martin*

*Vice President of Technical Services, ICC-SWCC*



Please verify certification is active on the ICC-SWCC website: [www.smallwindcertification.org](http://www.smallwindcertification.org)

©2021 Small Wind Certification Council (ICC-SWCC™)

3060 Saturn Street, Suite 100 ♦ Brea, CA 92821 ♦ (888) 422-7233



SMALL WIND  
CERTIFICATION  
COUNCIL™

**ICC-SWCC™**

**CERTIFICATION SWCC-11-04**



**Wind Turbine Specification:**

**Turbine Parameters**

Manufacturer .....	SD Wind Energy, Ltd.
Model .....	SD6
Power Form .....	240 VAC, 1-phase, 60 Hz
Rotor Diameter .....	5.5 m
Rotor Swept Area.....	23.7 m <sup>2</sup>
Cut-In Wind Speed.....	2.5 m/s
Cut-Out Wind Speed.....	N/A
Maximum Power .....	6.135 kW
Maximum Current .....	22 ADC into, 23 AAC from inverter
Maximum Voltage .....	600 VAC, 3-phase from turbine

**Turbine Ratings**

AWEA Rated Annual Energy @ 5 m/s .....	8,950 kWh
AWEA Rated Sound Level.....	43.1 dB(A)
AWEA Rated Power.....	5.2 kW @ 11 m/s
Peak Power.....	6.1 kW @ 17 m/s

**Design and Duration:**

Turbine design calculations comply with AWEA Standard 9.1 – 2009 for an IEC Class I 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 Duration 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.

Please verify certification is active on the ICC-SWCC website: [www.smallwindcertification.org](http://www.smallwindcertification.org)

©2021 Small Wind Certification Council (ICC-SWCC™)

3060 Saturn Street, Suite 100 ♦ Brea, CA 92821 ♦ (888) 422-7233



CERTIFICATE # 3299.01.3299.03