



ICC-SWCC™ CERTIFICATION SWCC-18-02

Small Wind Turbine Certification Program

Certification No: SWCC-18-02
Issued: May 10, 2019
Expiration Date: June 1, 2022
Certification subject to renewal annually.

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.

Products: Small Wind Turbines—electricity-producing wind turbines with a swept area up to 200 m²
Standard: AWEA Small Wind Turbine Performance & Safety Standard (AWEA 9.1–2009)

Listee:	Hi VAWT Technology Corp. No. 168, Jhulin 1 st Rd. Linkuo town, 244 Taipei county, Taiwan, ROC	<i>Represented in USA by:</i>	Colite Technologies 5 Technology Circle Columbia, SC 29203 www.colitetech.com (803) 935-9000
			www.hi-vawt.com.tw +886-2-8601-4373

Model: **DS3000** (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
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 Hi-VAWT in Taiwan, ROC 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
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Wind Turbine Specification:

Turbine Parameters

Manufacturer	Hi VAWT Technology
Model	DS3000
Power Form	240 VAC, 1-phase, 60 Hz
Rotor Diameter	3.66 m (effective)
Rotor Swept Area.....	10.6 m ²
Cut-In Wind Speed.....	3.5 m/s
Cut-Out Wind Speed.....	15 m/s
Maximum Power	2.7 kW
Maximum Current	10.2 AAC from inverter
Maximum Voltage	264 V AC from inverter

Turbine Ratings

AWEA Rated Annual Energy @ 5 m/s	2,460 kWh
AWEA Rated Sound Level.....	42.3 dB(A)
AWEA Rated Power.....	1.4 kW @ 11 m/s
Peak Power.....	1.4 kW @ 10.5 m/s

Design and Duration

Turbine design calculations comply with AWEA Standard 9.1 – 2009 for an IEC Class III SWT with an average wind speed (V_{ave}) of 7.5 m/s and reference wind speed (V_{ref}) of 37.5 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 III wind conditions. The DS3000 successfully completed a Duration Test for an IEC Class IV Small Wind Turbine with an Operational Time Fraction of 90%, an average wind speed (V_{ave}) of 6.0 m/s and reference wind speed (V_{ref}) of 30 m/s.



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