



ICC-SWCC™ CERTIFICATION SWCC-18-02



Small Wind Turbine Certification Program

Certification Number: SWCC-18-02
Original Certification Date: May 10, 2019
Expiration Date: June 1, 2021
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*. 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 m²
Reference 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.hi-vawt.com.tw +886-2-8601-4373 www.colitetech.com (803) 935-9000
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Model: **DS3000** (240 VAC, 1-phase, 60 Hz)

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	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.