CERTIFICATE OF COMPLIANCE

WIND RESISTANT DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-54011-01C (Revision 02)

Expiration Date: 09/30/2028

Certification Parameters:

The nonstructural products containing non-active components, listed on this certificate are CERTIFIED[1] FOR WIND APPLICATIONS in accordance with the following building code[1] releases.

IBC 2021, 2018; FBC 2020

The following model designations, options, and accessories are included in this certification. Reference report number **VMA-54011-01** as issued by VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

Rolls Royce Solutions America Inc.
Enclosures for Power Generating Equipment; 20 – 900 kW

The above referenced non-active components equipment is **APPROVED** for wind application when properly installed[2], used as intended, and contains a Wind Certification Label referencing this Certificate of Compliance. Installations in essential facilities, for life safety applications, and/or of equipment containing hazardous contents are permitted and included in this certification. The equipment is qualified by ISO Accredited Product Certification Agency, VMC Group via wind testing and analysis of certified product.

Certified Wind Resistant Design Levels				
Certified **IBC, FBC**	Exposure Categories B-D Risk Categories I-IV	**V ≤ 195 mph** V ≤ 87 m/s		**V ≤ 144 mph** V ≤ 64 m/s
		z ≤ 15 ft z ≤ 5 m		**z ≤ 500 ft** z ≤ 152 m
		Pressure Basis[4]	$\frac{F_h}{A_f} = q_z G C_f =$	**162 lbs/ft²** 7.75 kPa

Certified Wind Resistant Installation Methods
Rigid Mounting from Unit Base to Rigid Structure

HEADQUARTERS/New Jersey | 113 Main St., Bloomingdale, NJ 07403 | 973.838.1780 | 800.569.8423 | thevmcgroup.com

FABRICATION/Texas
11930 Brittmoore Park Dr.
Houston, TX 77041
713.466.0003
800.569.8423

CANFAB/California
182 Granite St., Suite 101
Corona, CA 92879
800.232.2632
canfab.com

BRD/Pennsylvania
112 Fairview Ave.
Wind Gap, PA 18091
610.863.6300
hushcore.net

DCL/Nevada
1315 Greg St., Suite 109
Sparks, NV 89431
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Certified Product Table:

Model	Generator Type	Material	Dimensions [in.]			Impact Rating[6]	Design Pressures[6]		V_{ult} @ Z ≤ 15 ft Exposure Category D	Roof Dead Loading
			Length	Width	Height		Wall	Roof		
20-30 kW	Gas Low Power Range	Carbon Steel or Aluminum	91.5	36	63	Missile Level E (9 lb 2x4 @ 80 ft/s)	97 psf	77 psf	195 mph	Roof Design Load: 60 psf
40 kW										
50-60 kW			113	40	65					
75-125 kW			132.5	48	85					
130-150 kW			132.5	48	80					
250-500 kW	1600 Gas		221	86	102					
30 kW	Diesel Low Power Range		91	36	63					
40-50 kW			101	40	66					
60 kW										
80-125 kW OM			118.5	48	80					
80-100 kW			132.5	48	75					
125 kW										
150-200 kW OM			144.5	48	87					
150 kW			144.5	48	77					
180-200 kW										
230-300 kW			190	56	97					
350-400 kW			206	84	104.5					
450-500 kW			272	84	103					
550-600 kW										
750-900 kW	1600 Diesel		300	96	102					

Note: Units and materials underlined were tested as representative product line test samples in accordance with referenced test standards.

IBC		2021, 2018		
ASCE		7-16		
Exposure Category		B	C	D
Velocity[5] (mph)	Z ≤ 15 ft	262	215	195
	Z = 200 ft	181	164	156
	Z ≤ 500 ft	158	149	144

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Notes and Comments:

1. The following building codes are addressed under this certification:

   IBC 2021 – referencing ASCE 7-16
   IBC 2018 – referencing ASCE 7-16
   FBC 2020 – referencing TAS 201-94, TAS 202-94, and TAS 203-94

2. Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for wind applications. Required anchor locations, size, style, and load capacities (tension and shear) are specified on the installation drawings. Mounting requirement details such as anchor brand, type, embedment depth, edge spacing, anchor-to-anchor spacing, concrete strength, special inspection, wall design, and attachment to non-building structures must be outlined and approved by the Engineer of Record for the project or building. Structural walls, structural floors, and housekeeping pads must also be sufficiently designed and approved by the project or building Structural Engineer of Record to withstand the wind anchor loads as defined on the installation drawings. The installing contractor is responsible for observing the installation detailed in the wind installation drawings and the proper installation of all anchors and mounting hardware.

3. For this certificate to remain valid, it must correspond to the "Wind Certification Label" found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC wind design criteria set forth by the Product Certification Agency, The VMC Group, and meets the wind design levels claimed by this certificate.

4. The qualified wind design pressure stated is for the horizontal (wall) wind pressure for applications utilizing ASCE 7-16, for more detailed ranges of qualified wind design levels, sees the report cited on Page 1. This wind design pressure is to be utilized with ASD load combinations. The pressure listed on page 1 does not include the 0.6x ASD wind load reduction factor.

5. Design velocity was chosen based on worst case FBC wind requirements. Other velocities were derived from the design pressure resulting from the design velocity.

6. The qualified impact rating and qualified load rating stated is tested in accordance with TAS 201-94 as required by Section 1626 of the *Florida Building Code, Building* and TAS-203-94 as required by TAS 201-94. Design Pressures here include the 0.6x ASD wind load reduction factor.

7. Mechanical, Electrical, and Plumbing connections to the equipment must be flexibly attached as to not transfer load through the connection. The structural integrity of any conduit, cable trays, piping, ductwork and/or flexible connections is the responsibility of others. This certification does not guarantee the equipment will remain compliant to UL or NEMA standards after a wind action.

8. This certificate applies to units manufactured at

   MTU Onsite Energy, 100 Power Drive, Mankato, MN 56001

9. This project follows VMC Group's ISO-17065 Scheme for Product Certification of Nonstructural Components.

John P. Giuliano, PE
President, The VMC Group

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