CERTIFICATE OF COMPLIANCE

WIND RESISTANT DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-54011-03C (Revision 0)

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[3] releases.

IBC 2021, 2018

The following model designations, options, and accessories are included in this certification. Reference report number **VMA-54011-03** 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 with an Equipment Importance Factor assigned as I_P=1.15. The equipment is qualified by ISO Accredited Product Certification Agency, VMC Group via structural analysis of worst-case representative sample of certified product.

Certified Wind Resistant Design Levels				
Certified **IBC**	**Importance $I_P \leq 1.15$** Exposure Categories A-D Risk Categories I-IV	**V ≤ 130 mph** V ≤ 58 m/s		**V ≤ 95 mph** V ≤ 42 m/s
		z ≤ 15 ft z ≤ 5 m		**z ≤ 500 ft** z ≤ 152 m
		Pressure Basis[4]	$\frac{F_h}{A_f} = q_z G C_f =$	**72 lbs/ft²** 3.45 kPa

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

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Certified Product Table:

Model	Generator Type	Material	Max. Dimensions [in.]			Design Pressures[6]		V_{ult} @ Z ≤ 15 ft Exposure Category D
			Length	Width	Height	Wall	Roof	
20-30 kW	Gas Low Power Range	Carbon Steel or Aluminum	91.5	36	63	43 psf	34 psf	130 mph
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 analyzed as representative product line samples in accordance with referenced standards.

IBC		2021, 2018		
ASCE		7-16		
Exposure Category		B	C	D
Velocity[5] (mph)	Z ≤ 15 ft	174	143	130
	Z = 200 ft	120	109	104
	Z ≤ 500 ft	105	99	95

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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

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 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 utilizes ASD load combinations. The pressure listed on page 1 does not include the 0.6x ASD wind load reduction factor.

5. Design velocity (highlighted in yellow) was chosen based on the corresponding ASCE 7 wind map. Other velocities were derived from the design pressure resulting from the design velocity.

6. 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

   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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