

CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS



Certification No.

VMA-52956-01C (Revision 8)

Expiration Date: 7/31/2029

Certification Parameters:

The nonstructural products (mechanical and/or electrical components) listed on this certificate are **CERTIFIED¹** FOR SEISMIC APPLICATIONS in accordance with the following building code² releases.

IBC 2021, 2018, 2015, 2012

The following model designations, options, and accessories are included in this certification. Reference report number VMA-52956-01 as issued by The VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

**Cummins Power Generation, Inc.; Automatic & By-Pass Transfer Switches
OTEC, OTECSE, BTPC, CBL; 40-1200 Amp**

The above referenced equipment is **APPROVED** for seismic application when properly installed³, used as intended, and contains a Seismic Certification Label referencing this Certificate of Compliance⁴. As limited by the tabulated values, below grade, grade, and roof-level installations, 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 $I_p=1.5$. The equipment is qualified by successful seismic shake table testing at the nationally recognized Clark Dynamic Test Laboratory, Environmental Testing Laboratories, and Dynamic Certification Laboratories under the review of the ISO Accredited Product Certification Agency, the VMC Group.

Certified Seismic Design Levels ⁸			
Certified IBC	Importance $I_p \leq 1.5$ Soil Classes A-E Risk Categories I-IV Design Categories A-F	$z/h \leq 1.0$	$z/h = 0.0$
		$S_{DS} \leq 2.270 \text{ g}$	$S_{DS} \leq 2.500 \text{ g}$

The qualified seismic design level stated is the highest for all series this certificate covers. For more information, see the certified product tables on page 2.

Certified Seismic Installation Methods ⁹	
Directly To Structural Wall	Rigid Mounting From Unit Base To Rigid Structure
Combination Rigid Mounting from Unit Base to Rigid Structure and Directly to Structural Wall	



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Certified Product Table:

Model	Amp Range	Frame	NEMA Rating	Height [in.]	Width [in.]	Depth [in.]	Max Weight [lbs]	Mounting
OTEC	40, 70, 125	A	1, 3R, 4, 4X, 12	46	32	16	336	Rigid Wall
	150, 225, 260	B						
	300, 400, 600	C		74	21	32.4	521	
	800, 1000	D				33	589	
OTECSE	40, 70, 100, 125	A-SE	1, 3R, 12	43.4	32	16.3	364	Rigid Wall
	150, 200, 225, 250	B-SE		74	34	20	611	
	300, 400, 600	C-SE		74.5	22.4	34.4	651	
BTPC	150-260	B	1, 3R, 4, 12	72	36	23	564	Rigid Base
	300-600	C		84			639	
	800-1000	D		90	48	28	1100	
CBL	150-600	C	1, 3R, 4, 12	84	36	23	810	Rigid Base
	800-1000	D					1179	
OTEC	1200	E	1, 3R, 4, 12, 4X	93.3	27.5	39	891	Combination Rigid Base/Wall
OTECSE	800-1000	D-SE	1, 3R, 4, 12		27.8		1034	
OTEC	1200	E	1, 3R, 4, 12, 4X	93.3	27.5	39	891	
OTECSE	800-1000	D-SE	1, 3R, 4, 12				1034	

Group	Type	S _{DS} (z/h=0)	S _{DS} (z/h=1)	A _{Flex-H}	A _{Rig-H}	A _{Flex-V}	A _{Rig-V}	F _p /W _p
All Models	AC156	2.50	2.27	3.63	2.72	1.67	0.67	1.70
Any Model with P80 Controller			2.00	3.20	2.40			1.50

This certification includes the Automatic & By-Pass Transfer Switches and included factory supplied options. This certification only covers accessories and options listed on the product matrix. The ATS shall be installed per the manufacturer supplied seismic installation instructions. For a list of certified options please directly contact the manufacturer. This certification excludes all non-factory supplied accessories and options, including but not limited to isolation/restraint devices, other electrical/mechanical components and their connections. Flexibility in the connections must be maintained as to not transmit load into the equipment.



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Notes & Comments:

1. All equipment listed herein successfully passed the seismic acceptance criteria for shake testing non-structural components and systems as set forth in the ICC AC-156. The Test Response Spectrum (TRS) enveloped the Required Response Spectrum (RRS) for all units tested. The tested units were representative sample(s) of a contingent of models and all remained captive and structurally sound after the seismic shake simulation. The units also remained functionally operational after the simulation testing as functional testing was completed by the equipment manufacturer before and after the seismic simulations. Although a seismic qualified unit inherently contains some wind resisting capacity, that capacity is undetermined and is excluded from this certification. Snow/Ice loads have been neglected and thus limit the unit to be installed both indoors (covered by an independent protective structure) and out of doors (exposed to accumulating snow/ice) for ground snow loads no greater than 30 psf for all applications.
2. The following building codes are addressed under this certification:
 - IBC 2021 referencing ASCE7-16 and ICC-ES AC-156
 - IBC 2018 referencing ASCE7-16 and ICC-ES AC-156
 - IBC 2015 referencing ASCE7-10 and ICC-ES AC-156
 - IBC 2012 referencing ASCE7-10 and ICC-ES AC-156
3. Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for seismic applications. Required anchor locations, size, style, and load capacities (tension and shear) may be specified on the installation drawings or specified by a 3rd party. 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 seismically designed and approved by the project or building Structural Engineer of Record to withstand the seismic anchor loads as defined on the installation drawings. The installing contractor is responsible for ensuring the proper installation of all anchors and mounting hardware.
4. For this certificate and certification to remain valid, this certificate must correspond to the "Seismic Certification Label" found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC seismic design criteria set forth by the Certified Seismic Qualification Agency, the VMC Group, and meets the seismic design levels claimed by this certificate.
5. 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 makes no statements of compliance in regards to NEMA, IP, UL, CSA, or other relevant standards after a seismic event. For compliance to other relevant standards, please contact the manufacturer.
6. This certificate applies to units manufactured at:
 - Cummins Power Systems Eje 122 # 200 Zona Industrial CP 78395 San Luis Potosi SLP México
 - Cummins Natural Gas Engines 409 S. Norris Street Clovis, NM 88101 U.S.A.
7. This certification follows the VMC Group's ISO-17065 Scheme.
8. The qualified seismic design level stated is the highest for all series this certificate covers. For more information, see the certified product tables on page 2.
9. The certified seismic installation methods stated are a summary for all product lines this certificate covers. For individual certified seismic installation methods, see the certified product tables.

John P. Giuliano, PE
President, VMC Group



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