

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP) **APPLICATION #: OSP-0444 HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: **Cummins Power Generation** Manufacturer's Technical Representative: Vyshnav Reveendran Mailing Address: 1400 73rd AVE NE, Fridley, MN 55432 Telephone: (763) 574-5000 Email: Vyshnav.Raveendran@cummins.com **Product Information** Product Name: QSK95 Diesel Generator Sets Product Model Number(s): C3000 D6, C3000 D6e, C3250 D6, C3250 D6e, 3500 D6, C3500 D6e, and PCC3300 HMI **Product Category:** Emergency and Standby Power Systems 4 Product Sub-Category: Generators Diesel engine powered electrical generator sets, w/ controls, w/ and w/o radiator cooling system. General Description: Seismic enhancements made to the test units required to address anomalies observed during the tests shall be incorporated into the production units. Diesel powered elec gensets-floor mounted on external isolators. PCC 3300 HMI-floor mounted rigid Mounting Description: Seismic enhancements made to the test units and/or modifications required to address Tested Seismic Enhancements: anomalies during the tests shall be incorporated into the production units. **Applicant Information** Applicant Company Name: VMC Group Contact Person: John Giuliano

Title: President

Telephone: (973) 838-1780

Mailing Address: 113 Main St, Bloomingdale, NJ 07403



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Email: john.giuliano@thevmcgroup.com



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)								
Company Name: THE VMC GROUP								
Name: Kenneth Tarlow California License Number: S2851								
Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814								
Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com								
Certification Method								
☐ GR-63-Core								
Other (Please Specify):								
EOR CODE CO.								
Testing Laboratory								
Company Name: U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, CONSTRUCTION ENGINEERING RESEARCH LABORATORY (CERL)								
Contact Person: James Wilcoski OSP-0444								
Mailing Address: 2902 Newmark Dr., Champaign IL 61822-1076								
Telephone: (217) 373-4565 BY Email: James.wilcoski@usace.army.mil								
Company Name: CLARK TESTING LABORATORY, INC.								
Contact Person: Davon Lohr								
Mailing Address: 1801 Route 51, Jefferson Hills PA 15025								
Telephone: (412) 387-1001 Email: dlohr@clarktesting.com								

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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Seismic Parameters

Design Basis of Equipment or Components (Fp/Wp) = Spring Isolated: [4.5 (SDS=2.00, z/h=1.0), 1.80 (SDS=2.40, z/h=0)]; Rigid: [1.5 (SDS=2.00, z/h=1.0), 1.08 (SDS=2.40, z/h=0)]

SDS (Design spectral response acceleration at short period, g) = 2.00 (z/h=1), 2.40 (z/h=0)

ap (Amplification factor) =

Rp (Response modification factor) = 2.0 (Spring Isolated); 6.0 (Rigid)

 Ω_0 (System overstrength factor) = 2.0

1.5 Ip (Importance factor) =

1 and 0 z/h (Height ratio factor) =

Natural frequencies (Hz) = See Attachment

See Attachment Overall dimensions and weight =

HCAI Approval (For Office Use Only) - Approval Expires on 05/02/2031

Date: 5/2/2025

Name: Timothy Piland Title: Senior Structural Engineer

'-0444

M

Special Seismic Certification Valid Up to: SDS (g) = z/h =See Above See Above

Condition of Approval (if applicable):



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Table 1 - Certified 60Hz Diesel Generator Set with Radiators

I Skid I		Power		Max Dimensional Data						z/h = 1	z/h = 0		
Model ⁽¹⁾	Type	Rating [kW]	Length [in]	Width [in]	Height [in]	Weight [lbs]	Engine	Alternator	Radiator	Controller	S _{DS} (g)	$S_{DS}(g)$	UUT
C3000 D6 /	P80 / S9	_	311	119	150	67,682					2.00	2.40	UUT-01
C3000 D6e ⁽¹⁾	DIG	2500 - 3000	305	119	150	74,060					2.00	2.40	Interpolated
C3250 D6 /	P80 / S9	2500 - 3250	322	125	150	70,218	Cummins	Cummins	Young	Cummins	2.00	2.40	Interpolated
C3250 D6e	DIG	2300 - 3230	341	125	150	79,807	Cullillins	Cultillins	Touchstone	Cullillins	2.00	2.40	Interpolated
C3500 D6 /	P80 / S9	2750 - 3500	322	125	150	70,107					2.00	2.40	Interpolated
C3500 D6e ⁽¹⁾	DIG	2730 - 3500	341	125	150	79,807					2.00	2.40	UUT-02

Table 2 - Certified 60Hz Diesel Generator Set without Radiators

	Skid	Power		Max Dimen	sional Data						z/h = 1	z/h = 0				
	Type				Rating [kW]	Length [in]	Width [in]	Height [in]	Weight [lbs]	Engine	Alternator	Radiator	Controller	$S_{DS}(g)$	$S_{DS}(g)$	UUT
C3000 D6 / C3000 D6e ⁽¹⁾	<u>P80</u> / S9	2500 - 3000	239	82	118	56,218					2.00	2.40	Similar to UUT-01			
C3000 D6e	DIG		250	99	B 118 im	o 63,544 P					2.00	2.40	Interpolated			
C3250 D6 /	P80/ S9	2500 - 3250	239	82	118	56,218	Cummine	Cummins	N/A	Cummine	2.00	2.40	Interpolated			
C3250 D6e	DIG	2300 - 3230	250	99	118	63,544	Cummins	Cultillins	IN/A	Cummins	2.00	2.40	Interpolated			
C3500 D6 /	P80 / S9		239	82	D/118 E.	56,218					2.00	2.40	Interpolated			
C3500 D6e ⁽¹⁾	DIG	2750 - 3500	250	99	118	64,816					2.00	2.40	Similar to UUT-02			

Table 3 - Certified PCC3300 HMI Pedestal Mounted

		Max Dimensional			z/h = 1 z/h = 0			
Model	Length [in]	Width [in]	Height [in]	Weight [lbs]	Manufacturer		$S_{DS}(g)$	UUT
PCC3300 HMI (Pedestal Mounted)	20	20	52	64	Cummins	2.00	2.40	UUT-03

Notes

- 1) The only differences between the "e" and non-"e" models is software.
- 2) Generator sets listed in Table 2 are identical to those listed in Table 1 except that they lack a radiator.
- 3) UUT-01 & UUT-02 are floor mounted on spring isolators.

Table 4 - Certified Subcomponents: Engine

Applicable Genset Models	enset Models Model Max Weight Manufacturer [lbs]		Optional Engine Features	UUT	
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6	QSK 95	29,321	Cummins	Duplex Fuel Filters Non-Duplex Fuel Filters Cartridge Lube Oil Filter DC Prelube Device Standard Electric Starter Redundant Electric Starter Coalescing Breather	UUT-01, UUT-02

Table 5 - Certified Subcomponents: Alternator

Applicable Genset Models	Model Number	Manufacturer	Material	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e /	S9M1D-E4 / S9H <mark>1D-E</mark> 4			13,970	Extrapolated
C3250 D6 / C3250 D6e	P80 S			14,065	Extrapolated
	P80 T			14,992	Extrapolated
	S9M1D-F4 / S9H <mark>1D-F</mark> 4			15,070	Extrapolated
C3000 D6 / C3000 D6e /	S9L1D-E4			16,394	Extrapolated
C3250 D6 / C3250 D6e /	S9M1D-G4 / S9H1D-G4			17,086	Extrapolated
C3500 D6 / C3500 D6e	S9L1D-F4			17,346	Extrapolated
	S9M1D-H4 / S9H1D-H4	Cummins		18,078	Extrapolated
	P80 W		Carbon Steel	18,950	Extrapolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	P80 X		Laminations and Copper Windings	19,080	UUT-01
N/A	P80 Y			19,150	Interpolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	S9L1D-G4			19,216	Interpolated
C3500 D6 / C3500 D6e	DIG C			20,780	Interpolated
C3000 D6 / C3000 D6e /	DIG D			21,510	Interpolated
C3250 D6 / C3250 D6e /	DIG E			22,330	Interpolated
C3500 D6 / C3500 D6e	DIG F			24,760	Interpolated
C3500 D6 / C3500 D6e	DIG G			26,032	UUT-02

Table 6 - Certified Subcomponents: Radiator

Applicable Genset Models	Part Number	Core Size [ft²]	Material	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e /	A065K762 / A065K763 / A065K764 / A065K765	84	Copper Core		11,500	Interpolated
C3250 D6 / C3250 D6e /	A049E404	84	Carbon Steel Structure	Young Touchstone	11,500	UUT-01
C3500 D6 / C3500 D6e	A065K759	94	Carbon Steel Structure		13,140	Interpolated
	A048D643	94			13,140	UUT-02
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	A076E018	87	Copper Core Carbon Steel Structure	IEA	10,867 ¹	UUT-07a, 07b

¹⁾ A076E018 IEA Radiator weight includes isolator weight

Table 7 - Certified Subcomponents: Skid

Applicable Genset Models	Material	Skid Type	Part Number	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	Structural Carbon Steel	<u>P80</u> / S9	A047N790	Cummins	5,100	UUT-01
C3500 D6 / C3500 D6e / C3500 D6e		DIG	A047Y181		9,000	UUT-02

Table 8 - Certified Subcomponents: Controller

Applicable Genset Models	Model Number	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	PCC 3300	Cummins	250	UUT-01, UUT-02
C3500 D6 / C3500 D6e / C3500 D6e	PCC 3300 HMI ONLY, ON PEDESTAL	Cullillins	65	UUT-03

Table 9 - Certified Subcomponents: Air Cleaner

Applicable Genset Models	Description	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	Normal Duty	Cummins	1,000	UUT-01
C3500 D6 / C3500 D6e	Heavy Duty	Cullillis	1,400	UUT-02

²⁾ A076E018 IEA Radiator must be installed structurally independent from the rest of the generator set.

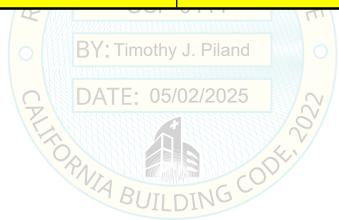
Table 10 - Certified Subcomponents: Power Distribution Boxes

Applicable Genset Models Description		Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	AC Distribution Box, A055K503	Cummins	26	UUT-05a, UUT-05b ¹
C3500 D6 / C3500 D6e / C3500 D6e	DC Distribution Box, A062R012	Cullillis	84	UUT-04a,UUT-04b ¹

¹⁾ UUT-04 and UUT-05 tested in rigid wall and flexible wall configuration to certify the boxes to be mounted to the side of the genset. Newly tested boxes mount to the same location on the genset as tested in the full genset models UUT-01 and UUT-02.

Table 11 - Certified Subcomponents: Motor Starter

Applicable Genset Models	Model Number	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e /				
C3250 D6 / C3250 D6e /	M128	Prestolite	38	UUT-06a, UUT-06b
C3500 D6 / C3500 D6e				





UUT-1

CERL Test Report: VMA-49625-01E

Model Line	Model Number	Manufacturer
3000-3500 kW QSK95 Gensets	C3000 D6	Cummins Power Generation

Product Construction Summary

Diesel powered electrical generator set 3000 kW. Carbon Steel base frame

Options / Subcomponent Summary

Engine: Cummins ; QSK 95, Alternator: Cummins ; P80X, Radiator: Young Touchstone ; A049E404, Skid: Cummins / A047N790, Controller: Cummins / PCC 3300, Air Cleaner: Cummins / Normal Duty

		FOR	CODE	CON				
		U	UT Properti	es	0/			
Weight		Dimens	ions [in]			Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	w	Width		F-B	S-S	V	
67,682	311.00	11	119.00 - 0444 150.00			3.3	3.2	6.7
	UUT	Highest Pas	sed Seismi	Run Info	rmation		•	
Building Code	Test Criteria	BY Spsim	oth z/h j. P	iland	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
000000	100 50 40450	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022	ICC-ES AC156	2.40	050021	1.5		-	1.61	0.65
		Test	Mounting D	etails		•	•	

Unit is mounted to test fixture using (18) VMC M2SSHX-1E spring isolators. Isolators are welded to the fixture.





UUT-2

CERL Test Report: VMA-49625-01E

Model Line	Model Number	Manufacturer
3000-3500 kW QSK95 Gensets	C3500 D6	Cummins Power Generation

Product Construction Summary

Diesel powered electrical generator set 3500 kW. Carbon Steel base frame

Options / Subcomponent Summary

Engine: Cummins / QSK 95 ; Alternator: Cummins / DIG G ; Radiator: Young Touchstone / A048D643 ; Skid: Cummins / A047Y181 ; Controller: Cummins / PCC 3300 ; Air Cleaner: Cummins / Heavy Duty

		FOR CODE	COA			
		UUT Properties				
Weight	141	Dimensions [in]		Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	Width	Height	F-B	S-S	V
79,807	341.00	125.00 - 0444	150.00	3.3	3.2	6.6
	UUT	Highest Passed Seismic I	Run Information			
Building Code	Test <mark>Criter</mark> ia	BY Spsimothy /h Pil	anle A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00 1.0	1.5 3.20	2.40	-	-
	100-E3 AC 130	2.40 . 50.0	21.5	-	1.61	0.65

Test Mounting Details

Unit is mounted to test fixture using (20) Caldyn RJEHD spring isolators. Isolators are welded to the fixture.





UUT-3

CERL Test Report: VMA-49625-01E

Model Line	Model Number	Manufacturer		
HMI only on pedestal	PCC 3300 HMI	Cummins Power Generation		

Product Construction Summary

ASTM A36 mild steel pedestal base, ASTM B221 6063 T-52 Aluminum pedestal upright, ASTM A569 mild steel HMI wrapper

Options / Subcomponent Summary

N/A

UUT Properties

Weight	Dimensions [in]				Lowest Nat. Freq. [Hz]			
[lbs]	Length	Width	Height	F-B	S-S	V		
66	20.00	20.00 - 0444	52.00	7.3	4.3	> 33.3		
IIIIT Highest Passed Science Pun Information								

UUT Highest Passed Seismic Run Information

Building Code	Test <mark>Criter</mark> ia	BY Spsimo	oth y/h J. P	iland	A _{FLX-H}	A_{RIG-H}	A _{FLX-V}	\mathbf{A}_{RIG-V}
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022		2.40	050.02/2	1021-5		-	1.61	0.65

Test Mounting Details

Unit is mounted to test fixture using (4) M12 Grade 8 Bolts.





UUT-4a

DCL Test Report: 31632-2101; UUT-1a

Model Line	Model Number	Manufacturer		
DC Distribution Box for QSK95 Gensets	A062R012	Cummins Power Generation		

Product Construction Summary

Carbon Steel Enclosure and Mounting Brackets

Options / Subcomponent Summary

Enclosure: Cummins; Mounting Brackets: Cummins

		FOR	CODE	CON				
		ļ	JUT Properti	es	9			
Weight	(4)	Dimens	ions [in]		5	Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	Width		Не	eight	F-B	S-S	V
84	8.25	21.50 - 044		4 34	4.25	N/A	N/A	N/A
	UUT	Highest Pas	sed Seismi	Run Infor	mation			
Building Code	Test <mark>Criter</mark> ia	BYSDSIM	oth y/h j. P	iland	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022		2.00	1.0	1.5	3.20	2.40	-	-
	ICC-ES AC156	2.40	05992/3	021.5	W _ā ,	-	1.61	0.65

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A043D580). Mounting brackets were fastened to the unit, via (8) anti-vibration mounts (PN# A045Y867), M8 bolts, and round washers. Unit was mounted to the wall fixture using (8) 3/8" Grade 5 bolts and (8) manufacturer provided bushings (PN# A052N277). Wall fixture attached directly to shake table.

Test Mounting Details





UUT-4b

DCL Test Report: 31632-2101; UUT-1b

Model Line	Model Number	Manufacturer		
DC Distribution Box for QSK95 Gensets	A062R012	Cummins Power Generation		

Product Construction Summary

Carbon Steel Enclosure and Mounting Brackets

Options / Subcomponent Summary

Enclosure: Cummins; Mounting Brackets: Cummins

		FOR CODE	CON				
		UUT Propert	ies				
Weight	(4)	Dimensions [in]		5	Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	Width	He	eight	F-B	S-S	V
84	8.25	21.50 - 04	4 34	1.25	N/A	N/A	N/A
	UUT	Highest Passed Seismi	c Run Infor	mation			
Building Code	Test <mark>Criter</mark> ia	BY Spsimoth z/h . F	ilant	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00 1.0	1.5	3.20	2.40	-	-
	ICC-ES AC 150	2.40 50.0	2021-5	W _a ,	-	1.61	0.65

Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A043D580). Mounting brackets were fastened to the unit, via (8) anti-vibration mounts (PN# A045Y867), M8 bolts, and round washers. Unit was mounted to the wall fixture using (8) 3/8" Grade 5 bolts and (8) manufacturer provided bushings (PN# A052N277). Wall fixture attached to shake table using (4) VMC Group MSSH-1E-530N external spring isolators.





UUT-5a

DCL Test Report: 31632-2101; UUT-2a

Model Line	Model Number	Manufacturer		
AC Distribution Box for QSK95 Gensets	A055K503	Cummins Power Generation		

Product Construction Summary

Carbon Steel Enclosure and Mounting Brackets

Options / Subcomponent Summary

Enclosure: Cummins; Mounting Brackets: Cummins

		FOR	CODE	COA				
		U	UT Propertie	es	0,			
Weight	(4)	Dimens	ions [in]		6	Lowes	st Nat. Freq	. [Hz]
[lbs]	Length	w	idth	Не	eight	F-B	S-S	V
26	5.75	10.50 - 044		4 21.25		N/A	N/A	N/A
	UUT	Highest Pas	sed Seismic	Run Infor	mation			
Building Code	Test <mark>Criter</mark> ia	BYSDSIM	oth y/h J. P	iland	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CDC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022	ICC-E3 AC 150	2.40	050,00/0	1.5		-	1.61	0.65

Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A052V294 [top] and A053M862 [bottom]). Mounting brackets were fastened to the unit, via (4) anti-vibration mounts (PN# A043E678), M6 bolts, and round washers. Unit was mounted to the wall fixture using (7) 3/8" Grade 5 bolts and (7) manufacturer provided bushings (PN# A043U714). Wall fixture attached directly to shake table.





UUT-5b

DCL Test Report: 31632-2101; UUT-2b

Model Line	Model Number	Manufacturer		
AC Distribution Box for QSK95 Gensets	A055K503	Cummins Power Generation		

Product Construction Summary

Carbon Steel Enclosure and Mounting Brackets

Options / Subcomponent Summary

Enclosure: Cummins; Mounting Brackets: Cummins

		FOR	CODECC	01				
		U	UT Properties	10/				
Weight	(4)	Dimensi	ons [in]		Lowe	st Nat. Freq	. [Hz]	
[lbs]	Length	Wi	dth	Height	F-B	S-S	V	
26	5.75	10.50 - 0.44		21.25	N/A	N/A	N/A	
	UUT Highest Passed Seismic Run Information							
Building Code	Test <mark>Criter</mark> ia	BYSDSIM	oth y/b . Pilan	P A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2022	ICC-ES AC156	2.00	1.0 1	.5 3.20	2.40	-	-	
ODO 2022	100-E3 AC 130	2.40	05992/2021	.5 -	-	1.61	0.65	

Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A052V294 [top] and A053M862 [bottom]). Mounting brackets were fastened to the unit, via (4) anti-vibration mounts (PN# A043E678), M6 bolts, and round washers. Unit was mounted to the wall fixture using (7) 3/8" Grade 5 bolts and (7) manufacturer provided bushings (PN# A043U714). Wall fixture attached to shake table using (4) VMC Group MSSH-1E-530N external spring isolators.





UUT-6a

DCL Test Report: 19534-2201; UUT-4a, 5a

Model Line	Model Number	Manufacturer	
Motor Starter for QSK95 Gensets	M128	Prestolite	
	Product Construction Summary		
Carbon Steel			

Options / Subcomponent Summary

N/A

UUT Properties Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height ٧ F-B S-S 5.00 5.50 - 04 15.50 N/A N/A N/A **UUT Highest Passed Seismic Run Information Building Code Test Criteria** A_{FLX-H} S_{DS} z/h anli A_{RIG-H} A_{FLX-V} A_{RIG-V} 1.0 3.20 2.40 2.00 1.5 CBC 2022 ICC-ES AC156 2.40 0.0 1.5 1.60 0.64

Test Mounting Details

Unit is mounted to a 1/4" thick steel mounting plate on the wall fixture with (3) 1/2" Grade 5 bolts. The wall fixture attached to the shake table with (12) Grade 5 M12 threaded rods.





UUT-6b

DCL Test Report: 19534-2201; UUT-4b, 5b

Model Line	Model Number	Manufacturer			
Motor Starter for QSK95 Gensets	M128	Prestolite			
Product Construction Summary					

Carbon Steel

Options / Subcomponent Summary

N/A

		FOR CO	DE COA				
		UUT Pro	operties	0			
Weight	(4)	Dimensions [in]	15	Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	Width	TANA TANA TANA TANA TANA TANA TANA TANA	eight	F-B	S-S	V
38	5.00	5.50	0444 1	4 15.50		N/A	N/A
	UUT	Highest Passed So	eismic Run Info	rmation			
Building Code	Test <mark>Criter</mark> ia	BYSosimothy	/b. Pilanti	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00 1	.0 1.5	3.20	2.40	-	-
	100-E3 AC 130	2.40	0 / 1 1 1 5	 - 	-	1.60	0.64

Test Mounting Details

Unit is mounted to a 1/4" thick steel mounting plate on the wall fixture with (3) 1/2" Grade 5 bolts. The wall fixture attached to (4) VMC M2SSH-1E-530N isolators using (4) 3/4" Grade 5 threaded rods. The isolator base plate attached to the shake table with (16) Grade 5 M12 threaded rods.





UUT-7a

Clark Test Report: JID 24-01395-R; UUT-8a

Model Line	Model Number	Manufacturer		
Radiator for QSK95 Genset	A076E018	IEA		

Product Construction Summary

Copper core, carbon steel structure

Options / Subcomponent Summary

N/A

UUT Properties Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height ٧ F-B S-S 10,867 100.00 125.00 - 04 146.00 3.4 4.0 19.0 **UUT Highest Passed Seismic Run Information Building Code Test Criteria** SDS z/hl anЫ A_{FLX-H} A_{RIG-H} A_{FLX-V} A_{RIG-V} 1.0 1.5 3.20 2.40 2.00 CBC 2022 ICC-ES AC156 2.40 0.0 1.5 1.61 0.65

Test Mounting Details

UUT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the equipment using (1) 3/4" Grade 8 bolt each, and were connected to the shake table using 3/8" fillet welds on all four sides.





UUT-7b

0.65

1.61

Clark Test Report: JID 24-01395-R; UUT-8b

Model Line	Model Number	Manufacturer		
Radiator for QSK95 Genset	A076E018	IEA		

Product Construction Summary

Copper core, carbon steel structure

Options / Subcomponent Summary

N/A

UUT Properties Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height ٧ F-B S-S 10,867 100.00 125.00 - 04 146.00 3.1 3.6 11.3 **UUT Highest Passed Seismic Run Information Building Code Test Criteria** SDS z/hl anЫ A_{FLX-H} A_{RIG-H} A_{FLX-V} A_{RIG-V} 1.0 3.20 2.40 2.00 1.5 CBC 2022 ICC-ES AC156

0.0 **Test Mounting Details**

1.5

UUT-7b was isolated using (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the equipment using (1) 3/4" Grade 8 bolt each, and were connected to the shake table using 3/8" fillet welds on all four sides.

2.40

