

	055105	
APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE	USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP – 0588
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🛛 New 🗌 Renewal		
Manufacturer Information		
Manufacturer: SOCOMEC		
Manufacturer's Technical Representative: <u>Mr. PLISSON Bruno</u>		
Mailing Address: BOSTON (SAM) 9 Galen Street Suite 120 02472 -	WATERTOWN UNITED	STATES (US)
Telephone: +1 617-245-0447 (101)	plisson@socomec.com	
Product Information	MD,	
Product Name: Modulys GP – Green Power 2 OSHPD	P2	
Product Type: Modular Uninterruptable Power Supply System	Ser.	
Product Model Number: See Attached (List all unique product identification numbers and/or part numbers) have a function of UPS a General Description: made to the test units and modifications required to address anomalies obs production units.	ari nd battery cabinets. Seis	
Mounting Description: Rigid floor mounted with seismic installation ki	t, see attachment	
	Lu.	
Applicant Information	COL	
Applicant Company Name: W.E. Gundy & Associates, Inc.		
Contact Person: Travis Soppe, SE		
Mailing Address:		
Telephone: (208) 342-5989 Ext. 115 Email: tsoppe	@wegai.com	
I hereby agree to reimburse the Office of Statewide Health I accordance with the California Administrative Code, 2016.	Planning and Develo	pment review fees in
Signature of Applicant:	Date:	2/11/2019
Title: President Company Name: W.E. C	Sundy & Associates, Inc.	

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

OSHPD



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name:W.E. Gundy & Associates, Inc.
Name: Travis Soppe, SE California License Number: S6115
Mailing Address:
Telephone: (208) 342-5989 Ext. 115 Email: tsoppe@wegai.com
Supports and Attachments Preapproval
 Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required) Supports and attachments are not preapproved
Certification Method OSHPD
 Testing in accordance with: ICC-ES AC156P-0588 Other (Please Specify):
Testing Laboratory DATE: 10/27/2020
Company Name: IABG mbH
Contact Name: Dr. Steffen Roedling
Mailing Address:Einsteinstrasse 20, Ottobrunn, Germany D-85521
Telephone: +49 89-6088-2052 Email: roedling@iabg.de

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

OSHPD

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OSH-FD-759 (REV 12/16/15)

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Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: 🖂 Yes 🗌 No
Design Basis of Equipment or Components $(F_p/W_p) = 1.44$ for $z/h = 1.0$ and 1.13 for $z/h = 0$
S_{DS} (Design spectral response acceleration at short period, g) = <u>2.00 for z/h = 1.0 and 2.50 for z/h = 0</u>
a _p (In-structure equipment or component amplification factor) = <u>1.0</u>
R _p (Equipment or component response modification factor) = <u>2.5</u>
Ω_0 (System overstrength factor) = _2.0
I _p (Importance factor) = 1.5
z/h (Height factor ratio) =1.0 at S _{DS} =2.00g and 0 at S _{DS} = 2.50g
Equipment or Component Natural Frequencies (Hz) =Multiple, see attachment
Overall dimensions and weight (or range thereof) = <u>Multiple, see attachment</u>
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes X No
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
S _{D1} (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) = Mohammad Aliaari
Ω_0 (System overstrength factor) =
C_d (Deflection amplification factor) = DATE: 10/27/2020
I_p (Importance factor) = 1.5 \bigcirc
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: Yes X No
List of Attachments Supporting Special Seismic Certification
☐ Test Report(s) ☐ Drawings ☐ Calculations ⊠ Manufacturer's Catalog
Other(s) (Please Specify): Certified System Matrix, UUT Summary Sheets, Subcomponent Certification Letter
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Signature: M. Aliani Date: October 27, 2020
Special Seismic Certification Valid Up to : $S_{DS}(g) = \underline{See \ Above} z/h = \underline{See \ Above}$
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

SOCOMEC MODULYS GP - GREEN POWER 2.0 SPECIAL SEISMIC CERTIFICATION CERTIFIED PRODUCT LINE



TABLE 1: UPS CABINET PRODUCT LINE - MAX $S_{DS} = 2.5$ at z/h = 0 and $S_{DS} = 2.0$ at z/h = 1.0

	1		-				-		
¹ UPS Cabinet	Power (kW) Power		Battery	² Dimensions (in)			³ Weight (lb)		UUT
		Modules	Modules	Width	Length	Height	min	max	001
M4-S-100-HCA0 (-A) + P1	25	1	0	23.6	35.0	78.3	1050	1410	extrapolated
M4-S-100-HCA0 (-A) + P2	50	2	0	23.6	35.0	78.3	1120	1485	extrapolated
M4-S-100-HCA0 (-A) + P3	75	EBRC	ODECO	23.6	35.0	78.3	1190	1560	extrapolated
M4-S-100-HCA0 (-A) + P3	75	N 3	0	23.6	35.0	78.3	1560		UUT-1
M4-S-100-HCA0 (-A) + P4	100	4		23.6	35.0	78.3	1270	1650	interpolated
M4-S-100-HCA0 (-A) + P5	100	501		23.6	35.0	78.3	1340	1725	interpolated
M4-S-040-HCA0 (-A) + P1 + B0 to B3	25	hsp	0 to 3	23.6	35.0	78.3	1425	2085	interpolated
M4-S-040-HCA0 (-A) + P3 + B0 to B2	40	3	0 to 2	23.6	<mark>35</mark> .0	78.3	1575	2015	interpolated
M4-S-040-HCA0 (-A) + P2 + B0 to B3	40	2	0 to 3	23.6	<u>35.</u> 0	78.3	1500	2160	interpolated
M4-S-040-HCA0 (-A) + P2 + B3	<mark>40</mark>	sy: wonan	mad Allaa	23.6	<u>35.</u> 0	78.3	2160		UUT-2
TABLE 2: BATTERY C.	AB <mark>INET</mark> PRC	DUCT LIN	E - MAX S _D	_s = 2.5 a	<mark>t z/h</mark> = 0	and S _{DS}	s = 2.0 a	t z/h = 1	.0
¹ Battery Cabinet	Amp Hour Rating		Battery	² Dimensions (in)			3		
			Modules	Width	Length	Height	³ Weight (lb)		UUT
M4-BH-03S-009VU	27		3	31.9	37.4	78.3	1975		UUT-3
M4-BH-04S-009VU	36		4	31.9	37.4	78.3	2275		interpolated
M4-BH-05S-009VU	45 A BI II		GRIDING	31.9	37.4	78.3	2570		interpolated
M4-BH-06S-009VU	54		6	31.9	37.4	78.3	28	65	interpolated
M4-BH-07S-009VU	63		7	31.9	37.4	78.3	3165		interpolated
M4-BH-08S-009VU	7	2	8	31.9	37.4	78.3	3460		UUT-4

Notes:

¹ All components are manufactured by SOCOMEC INC. The part numbers listed uniquely identy the type of component, manufacturer, and material of construction for each sub-component within the tested units. UPS Cabinet Codes use 'P' to indicate number of M4-PI-UL25(+CH) power modules and 'B' to indicate number of M4-BM-005VU battery modules.

² Enclosures are constructed of carbon steel

³ Weight includes weight of UPS / power & battery cabinet, internal sub-components, and seismic installation kit.

⁴ UPS cabinets and battery cabinets are rigid floor mounted.

SOCOMEC MODULYS GP - GREEN POWER 2.0 SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS



TABLE 3: INVERTER / BATTERY CABINET SUBCOMPONENTS - MAX S_{DS} = 2.5 at z/h = 0 and SDS = 2.0 at z/h = 1.0

Subcomponent	Description	Manufacturer	Di	mensions	(in)	Weight (lb)	Representative UUT
			Width	Length	Height		
Power and	Battery Modules	2002		-			
M4-PI-UL25	Power module	SOCOMEC	19.0	29.2	5.1	75	UUT-1
M4-PI-UL25+CH	Power module with battery charger	SOCOMEC	19.0	29.2	5.1	75	UUT-2
M4-BM-005VU	Battery module	SOCOMEC	19.0	29.2	5.1	220	UUT-2
Hot-s	swap Bypass		2				
M4-PI-SBPUL	Hot-swap bypass switch	OSPSOCOMEC	10.6	28.5	7.8	55	UUT-1 / 2
Tra	insformers						
100kVA - 415/480V	Dry-type transformer, copper N	POWER EUROPE SrL	9.8	16.5	17.3	187	UUT-1
100kVA - 480/415V	Dry-type transformer, copper	POWER EUROPE SrL	9.1	16.5	18.9	231	UUT-1
40kVA - 480/SCH/400V	Dry-type transformer, copper_TE	POWER EUROPE SrL	14.2	18.9	18.9	429	UUT-2
H	Batteries O		5				
HRL 1223W	Sealed lead acid battery	BATTERY CSB	2.8	3.5	4.2	5	UUT-2
HRL 1225W	Sealed lead acid battery	BATTERY CSB	2.8	3.5	4.2	5	interpolated
HRL 1234W	Sealed lead acid battery	BATTERY CSB	2.6	5.9	3.9	6	UUT-3 / 4
12FGHL34	Sealed lead acid battery	BUILFIAMM	2.6	5.9	3.9	6	UUT-3 / 4
Top Air	Exhaust Option						
M4-OP-TEX-UL	Option for top air ventilation	SOCOMEC	23.6	13.9	77.8	66	UUT-1
Top Ent	ry Cable Option	-	-	-			
M4-OP-TCA	Top entry cable	SOCOMEC	23.6	7.3	6.3	9	UUT-2
Seismic	Installation Kit		-	-	-		
M4-OP-SEISM-US	UPS cabinet seismic install kit	SOCOMEC	16.9	35.6	59.8	395	UUT-1 / 2
M4-BH-SEISM-US	Battery cabinet seismic install kit	SOCOMEC	16.9	36.1	59.8	365	UUT-3 / 4

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounted with standard 6 - 5/8" grade 8.8 bolts / washers and with seismic kit (M4-OP-SEISM-US) consisting of an additional 16 - 5/8" grade 8.8 bolts / washers



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounted with standard 6 - 5/8" grade 8.8 bolts / washers and with seismic kit (M4-OP-SEISM-US) consisting of an additional 16 - 5/8" grade 8.8 bolts / washers



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounted with standard 6 - 5/8" grade 8.8 bolts / washers and with seismic kit (M4-BH-SEISM-US) consisting of an additional 16 - 5/8" grade 8.8 bolts / washers



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounted with standard 6 - 5/8" grade 8.8 bolts / washers and with seismic kit (M4-BH-SEISM-US) consisting of an additional 16 - 5/8" grade 8.8 bolts / washers



^{*}Weight includes weight of unit and seismic installation kit.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Wall mounted with 4 - 3/16" grade 8.8 bolts / washers

