

Title: Sales Engineer

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

THE CONTRACTOR OF THE CONTRACT									
APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY								
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0194								
HCAI Special Seismic Certification Preapproval (OSP)									
Type: New X Renewal									
Manufacturer Information									
Manufacturer: Concentric, LLC									
Manufacturer's Technical Representative: Brian Alpizar									
Mailing Address: 703 Pitts School Rd NW Suite D,, Concord, NC 37210									
Telephone: (615) 804-6131 Email: brian.alpizar@cond	centricusa.com								
EOR CODE CO.									
Product Information	8								
Product Name: UPS and Batteries	E CONTRACTOR CONTRACTO								
Product Type: Batteries	12								
Product Model Number: 48 Vdc and 125 Vdc System Battery Rack	- 177								
General Description: 48 Vdc System battery rack with (8) lead acid 3CC-5N with (20) lead acid 3CC-9M battery blocs from the Po									
Mounting Description: Rigid, Floor Mounted									
Tested Seismic Enhancements: None									
Applicant Information	4,								
Applicant Company Name: Concentric, LLC									
Contact Person: Brian Alpizar									
Mailing Address: 703 Pitts School Rd NW Suite D,, Concord, NC 28027									
Telephone: (888) 691-8100 Email: brian.alpizar@cond	centricusa.com								





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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)								
Company Name: COFFMAN ENGINEERS								
ame: Arvind Nerurkar California License Number: S5195								
Mailing Address: 1101 2nd Ave Suite 400, Seattle, WA 98101								
Telephone: (206) 623-0717 Email: Arvind.Nerurkar@Coffman.com								
Certification Method								
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3								
Other (Please Specify):								
FOR CODE CO								
Testing Laboratory								
Company Name: ANCO ENGINEERS, INC.								
Contact Person: Coner Byrne								
Mailing Address: 1965 33rd Street, Suite A, Boulder CO 80301								
Telephone: (303) 443-7580 Email: conor@ancoengineers.com								
DATE: 07/10/2023								







DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters	Seismic Parameters								
Design Basis of Equipment or Components (F _P /W _P) = 1.13									
SDS (Design spectral response accele	eration at short period, g) = 2.5								
ap (Amplification factor) =	1								
R _P (Response modification factor) =	2.5								
Ω_0 (System overstrength factor) =	2.0								
I _P (Importance factor) =	1.5								
z/h (Height ratio factor) =	0								
Natural frequencies (Hz) =	See Attachment								
Overall dimensions and weight =	See Attachment								

HCAI Approval (For Office Use Only) - Approval Expires on 07/10/2029							
Date:	7/10/2023 OSP-0194	1 A					
Name:	Mohammad Karim	Title:	Supervisor, Health Facilities				
Special	Seismic Certification Valid Up to: Sps (g) = 2.5	z/h =	0				
Conditio	n of Approval (if applicable): DATE 07/10/2023						



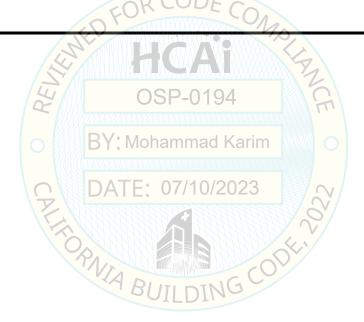


ABT Power Management, Inc. Battery Racks I. Certified Product Table

	Width	Depth	Height	Max. Weight	Part No.	Notes	Test Status
Racks							
48 Vdc System	23.2 in	17.8 in	47.8 in	737.0 lbs	ABT48VOSHPD	1, 3, 4	UUT-2
125 Vdc System	23.2 in	66.0 in	47.8 in	2848.0 lbs	ABT125VOSHPD	2, 3, 4	UUT-1

Notes

- 1. Contains 3CC-5M battery blocs.
- 2. Contains 3CC-9M battery blocs.
- 3. Constructed out of plastic coated steel (S235).
- 4. Rigidly floor mounted.



ABT Power Management, Inc. Battery Racks II. Certified Subcomponents Table

	Width	Depth	Height	Max. Weight	Part No.	Notes	Test Status	
PowerSafe Lead Acid CC Batteries ¹								
3CC-5M	9 in	7 in	14.8 in	74.0 lbs	3CC-5M	2	UUT-2	
3CC-9M	9 in	12.2 in	14.8 in	132.0 lbs	3CC-9M	3	UUT-1	

Notes

- 1. PowerSafe CC Series batteries are provided by Enersys
- 2. Installed in the 48Vdc System Rack only
- 3. Installed in the 125Vdc System Rack only



OSP APPLICATION Concentric, LLC – Battery Rack UUT Summary Sheets

Date: 6/7/2023

Tested Unit #1 (UUT1) - ANCO Test Report # 3315.01 Dated June 27, 2011 125 Vdc System with (20) 3CC-9M battery blocs Plastic Coated Steel (S235) 23.2"W x 66.0"D x 47.75"H, 2848 lbs Floor mounted using (6) ½"-13 Grade 8 bolts.



UUT#1 is on the right

Buildir	_	Т	est	S _{DS} z/h		Horizo	ontal	Ver	tical
Code	9	Cri	teria	(g)	2/11	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-H} (g)
CBC 20)22		C-ES 2 156	2.5	O	U215DI	N4.0	1.67	0.67
Natu	ral Fre	que	ncies	Test Results					
F-B	S-S	;	V	The UUT maintained structural integrity and functionality					
9.1	10.2	27	>33.3	after the AC156 test. UUT full of contents during testing.					

Internal Components:

Item#	Part #	Description
1	ABT125VOSHPD	125Vdc Battery Rack
2	3CC-9M	3CC-9M Battery Blocs

OSP APPLICATION Concentric, LLC – Battery Rack UUT Summary Sheets

Date: 6/7/2023

Tested Unit #2 (UUT2) - ANCO Test Report # 3315.01 Dated June 27, 2011 48 Vdc System with (8) 3CC-5M battery blocs Plastic Coated Steel (S235) 23.2"W x 17.8"D x 47.75"H, 737 lbs Floor mounted using (4) ½"-13 Grade 8 bolts.



UUT#2 is on the left

Buildi	ng	T	est	S _{DS} /z/h		Horizontal		Vertical	
Code	9	Cri	iteria	(g)	12/1	A _{FLX-H} (g)	Arig-H (g)	A _{FLX-V} (g)	A _{RIG-H} (g)
CBC 20	22		C-ES C 156	2.5	0	2.5	1.0	1.67	0.67
Natu	ral Fre	eque	encies	Test Results					
F-B	S-9	S	٧	The UUT maintained structural integrity and functionality					
14.3	10.	.9	>33.3	after the AC156 test. UUT full of contents during testing.					

Internal Components:

Item #	Part #	Description
1	ABT48VOSHPD	48 Vdc Battery Rack
2	3CC-5M	3CC-5M Battery Blocs