



Pre No. CC231347-01-R0

SPECIAL SEISMIC CERTIFICATION CERTIFICATE OF COMPLIANCE

Equipment Manufacturer

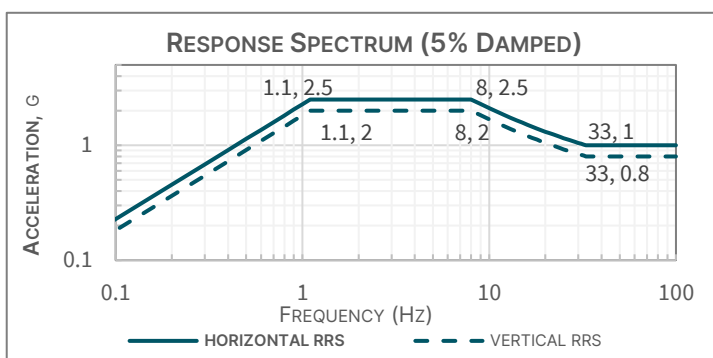
Manufacturer: ESS, Inc.
Model Line: Energy Center
Product Type: Batteries
Address: 26440 SW Parkway Ave., Bldg. 83
Wilsonville, OR 97070
Phone: (971) 252-2207
Website: www.essinc.com

Certification Agency

Issue Date: 22-Mar-2024
Expiration Date: 22-Mar-2030
Agency Name: Pre Compliance
Address: 36 SW Wall Street
Bend, OR 97702
Phone: (541) 241-2310
Website: www.go-pre.com

Seismic Certification Parameters

Method of Certification: Shake Table Testing
Assessment Standard: ICC-ES AC156
Mounting Configuration: Base Mounted - Rigid
Building Codes: IEEE 693-2018, CBC 2022
Importance Factor (I_p): 1.5
IEEE Level: High Performance
 S_{DS} for $z/h = 0$: 2.50 g
 A_{flx-h} : 2.50 g **A_{flx-v} :** 2.00 g
 A_{rig-h} : 1.00 g **A_{rig-v} :** 0.80 g



Certification Terms

1. For specific models covered under this certification, see Table of Certified Components and Subcomponents accompanying this certificate.
2. For products with $I_p \geq 1.0$, the product is expected to retain position following the design earthquake and is not expected to pose a threat to life and limb.
3. For components with $I_p = 1.5$ and certified by testing, the component is expected to remain operational following the design earthquake. Limited structural yielding is expected and minor repairs may be required.
4. This certification is dependent on proper mounting and anchorage in the listed mounting configuration(s). This certification does not specify anchorage design due to the variability of supporting structure and substrate conditions that may be present at the installation location.
5. Certified products are approved for the Building Codes listed and previous editions of those codes. Extension of this certificate to other Building Codes requires assessment of parameters by Pre Compliance. The seismic levels listed are valid for all soil types and seismic design categories.

Approval

I attest that I have impartially reviewed the documentation supporting this special seismic certification and have confirmed it is in general conformance with the referenced codes and standards and that it meets the listed seismic levels.

Signature:

Name: Andy Coughlin, SE
Title: Principal Engineer
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License: S6082 (California)

