



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

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0888

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Shuangdeng Group co., Ltd.

Manufacturer's Technical Representative: Miao Shukun

Mailing Address: No. 666, Tianmu West Road., Economic Development Zone, Jiangyan District, Tiazhou City, Jiangsu Province 300160

Telephone: +86-15861023707

Email: miaosk@shuangdeng.com.cn

Product Information

Product Name: Rechargeable Lithium Ion Battery

Product Model Number(s): Varies. See Attachment

Product Category: UPS and Batteries

Product Sub-Category: Batteries

General Description: Rechargeable Lithium Ion Battery System

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: Pre Compliance

Contact Person: Galen Reid

Mailing Address: 324 NW Hill St., Bend, OR 97703

Telephone: (541) 241-2310

Email: galen@go-pre.com

Title: Principal & Program Manager





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: PRE COMPLIANCE

Name: Andrew Coughlin

California License Number: S6082

Mailing Address: 324 NW Hill St, Bend, OR 97703

Telephone: (415) 635-8461

Email: Andy@go-pre.com

Certification Method

GR-63-Core

ICC-ES AC156

IEEE 344

IEEE 693

NEBS 3

Other (Please Specify): _____

Testing Laboratory

Company Name: CHINA TELECOMMUNICATION TECHNOLOGY LABS (CTTL)

Contact Person: Ying Deng

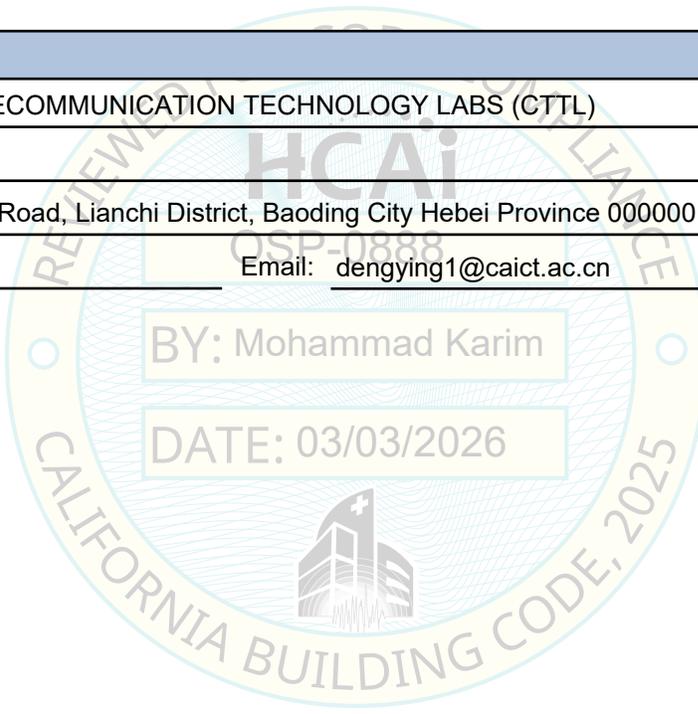
Mailing Address: 299 Tengfei Road, Lianchi District, Baoding City Hebei Province 000000

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BY: Mohammad Karim

DATE: 03/03/2026





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

Seismic Parameters

Certified Response Spectral Acceleration Factors:(Fp/Wp)

Horizontal	(A Flx-H), g=	<u>3.20</u>	(A Rig-H), g=	<u>2.15</u>
Vertical	(A Flx-V), g=	<u>1.67</u>	(A Rig-V), g=	<u>0.67</u>

SDS (Design spectral response acceleration at short period, g) = 2.5 @ z/h = 0; 2.0 @ z/h = 1

Hf (Force amplification height factor) = 1.0 @ z/h = 0; 3.5 @ z/h = 1

Ru (Structure ductility reduction factor) = 1.0 @ z/h = 0; 1.3 @ z/h = 1

Ip (Importance factor) = 1.5

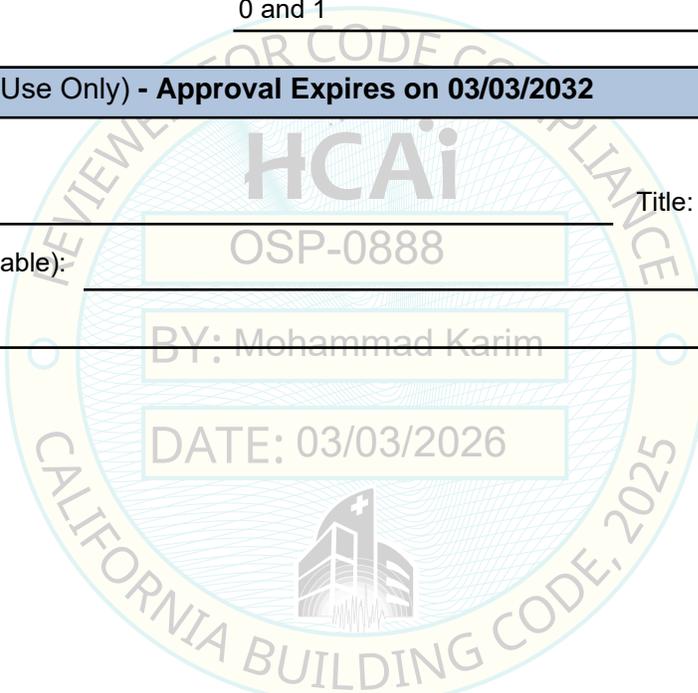
z/h (Height ratio factor) = 0 and 1

HCAI Approval (For Office Use Only) - Approval Expires on 03/03/2032

Date: 3/3/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable): OSP-0888



Manufacturer: Shuangdeng Group Co., Ltd.
Product Type: Batteries
Model Line: Rechargeable Lithium Ion Battery

Seismic Parameters	Building Codes
$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$ $S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	$I_p=1.5$ CBC 2025

TABLE 1 Mounting Configuration: Base Mounted - Rigid

Construction Summary

Carbon steel cabinet

Options Summary

5 to 12 Battery Modules
2-line or 3-line

Model Line	Model ¹	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Rechargeable Lithium Ion Battery (3P40 3-Line)	SHVP256120A01	39.4	23.6	78.7	1208	256Vdc, 120Ah, 30.72kWh	Interp.
	SHVP256120C01	39.4	23.6	78.7	1186	256Vdc, 120Ah, 30.72kWh	Interp.
	SHVP307120A01	39.4	23.6	78.7	1382	307.2Vdc, 120Ah, 36.864kWh	Interp.
	SHVP307120C01	39.4	23.6	78.7	1360	307.2Vdc, 120Ah, 36.864kWh	Interp.
	SHVP358120A01	39.4	23.6	78.7	1512	358.4Vdc, 120Ah, 43.008 kWh	Interp.
	SHVP358120C01	39.4	23.6	78.7	1490	358.4Vdc, 120Ah, 43.008 kWh	Interp.
	SHVP409120A01	39.4	23.6	78.7	1687	409.6Vdc, 120Ah, 49.152 kWh	Interp.
	SHVP409120C01	39.4	23.6	78.7	1664	409.6Vdc, 120Ah, 49.152 kWh	Interp.
	SHVP460120A01	39.4	23.6	78.7	1814	460.8Vdc, 120Ah, 55.296 kWh	Interp.
	SHVP460120C01	39.4	23.6	78.7	1792	460.8Vdc, 120Ah, 55.296 kWh	Interp.
	SHVP512120A01	39.4	23.6	78.7	1989	512.0Vdc, 120Ah, 61.44 kWh	Interp.
	SHVP512120C01	39.4	23.6	78.7	1967	512.0Vdc, 120Ah, 61.44 kWh	Interp.
	SHVP563120A01	39.4	23.6	90.6	2161	563.2Vdc, 120Ah, 67.584 kWh	Interp.
	SHVP563120C01	39.4	23.6	90.6	2138	563.2Vdc, 120Ah, 67.584 kWh	Interp.
	Rechargeable Lithium Ion Battery (3P40 2-line)	SHVP614120A01	39.4	23.6	90.6	2458	614.4Vdc, 120Ah, 73.728kWh
SHVP614120C01		39.4	23.6	90.6	2436	614.4Vdc, 120Ah, 73.728kWh	Interp.
SHVP256120A01-2		39.4	23.6	78.7	1208	256Vdc, 120Ah, 30.72kWh	Interp.
SHVP256120C01-2		39.4	23.6	78.7	1186	256Vdc, 120Ah, 30.72kWh	Interp.
SHVP307120A01-2		39.4	23.6	78.7	1382	307.2Vdc, 120Ah, 36.864kWh	Interp.
SHVP307120C01-2		39.4	23.6	78.7	1360	307.2Vdc, 120Ah, 36.864kWh	Interp.
SHVP358120A01-2		39.4	23.6	78.7	1512	358.4Vdc, 120Ah, 43.008 kWh	Interp.
SHVP358120C01-2		39.4	23.6	78.7	1490	358.4Vdc, 120Ah, 43.008 kWh	Interp.
SHVP409120A01-2		39.4	23.6	78.7	1687	409.6Vdc, 120Ah, 49.152 kWh	Interp.
SHVP409120C01-2		39.4	23.6	78.7	1664	409.6Vdc, 120Ah, 49.152 kWh	Interp.
SHVP460120A01-2		39.4	23.6	78.7	1814	460.8Vdc, 120Ah, 55.296 kWh	Interp.
SHVP460120C01-2		39.4	23.6	78.7	1792	460.8Vdc, 120Ah, 55.296 kWh	Interp.
SHVP512120A01-2		39.4	23.6	78.7	1989	512.0Vdc, 120Ah, 61.44 kWh	Interp.
SHVP512120C01-2		39.4	23.6	78.7	1967	512.0Vdc, 120Ah, 61.44 kWh	Interp.
SHVP563120A01-2		39.4	23.6	90.6	2161	563.2Vdc, 120Ah, 67.584 kWh	Interp.

1. "C01" cabinets are depopulated from "A01" cabinets (No BAU)



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC251764-01-R0

Manufacturer: Shuangdeng Group Co., Ltd.
Product Type: Batteries
Model Line: Rechargeable Lithium Ion Battery

Seismic Parameters	Building Codes
$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$	CBC 2025
$S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	

$I_p=1.5$

TABLE 1 Mounting Configuration: Base Mounted - Rigid

Construction Summary

Carbon steel cabinet

Options Summary

5 to 12 Battery Modules
2-line or 3-line

Model Line	Model ¹	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Rechargeable Lithium Ion Battery (3P40 2-line)	SHVP563120C01-2	39.4	23.6	90.6	2138	563.2Vdc, 120Ah, 67.584 kWh	Interp.
	SHVP614120A01-2	39.4	23.6	90.6	2288	614.4Vdc, 120Ah, 73.728kWh	Interp.
	SHVP614120C01-2	39.4	23.6	90.6	2266	614.4Vdc, 120Ah, 73.728kWh	Interp.
Rechargeable Lithium Ion Battery (2P60 3-Line)	SHVP256120A02	39.4	23.6	78.7	1146	256Vdc, 120Ah, 30.72kWh	Interp.
	SHVP256120C02	39.4	23.6	78.7	1124	256Vdc, 120Ah, 30.72kWh	Interp.
	SHVP307120A02	39.4	23.6	78.7	1305	307.2Vdc, 120Ah, 36.864kWh	Interp.
	SHVP307120C02	39.4	23.6	78.7	1283	307.2Vdc, 120Ah, 36.864kWh	Interp.
	SHVP358120A02	39.4	23.6	78.7	1464	358.4Vdc, 120Ah, 43.008 kWh	Interp.
	SHVP358120C02	39.4	23.6	78.7	1442	358.4Vdc, 120Ah, 43.008 kWh	Interp.
	SHVP409120A02	39.4	23.6	78.7	1623	409.6Vdc, 120Ah, 49.152 kWh	Interp.
	SHVP409120C02	39.4	23.6	78.7	1601	409.6Vdc, 120Ah, 49.152 kWh	Interp.
	SHVP460120A02	39.4	23.6	78.7	1781	460.8Vdc, 120Ah, 55.296 kWh	Interp.
	SHVP460120C02	39.4	23.6	78.7	1759	460.8Vdc, 120Ah, 55.296 kWh	Interp.
	SHVP512120A02	39.4	23.6	78.7	1940	512.0Vdc, 120Ah, 61.44 kWh	Interp.
	SHVP512120C02	39.4	23.6	78.7	1918	512.0Vdc, 120Ah, 61.44 kWh	Interp.
	SHVP563120A02	39.4	23.6	78.7	2099	563.2Vdc, 120Ah, 67.584 kWh	Interp.
	SHVP563120C02	39.4	23.6	78.7	2077	563.2Vdc, 120Ah, 67.584 kWh	Interp.
	SHVP614120A02	39.4	23.6	78.7	2258	614.4Vdc, 120Ah, 73.728kWh	Interp.
SHVP614120C02	39.4	23.6	78.7	2235	614.4Vdc, 120Ah, 73.728kWh	Interp.	
Rechargeable Lithium Ion Battery (2P60 2-Line)	SHVP256120A02-2	39.4	23.6	78.7	1146	256Vdc, 120Ah, 30.72kWh	Interp.
	SHVP256120C02-2	39.4	23.6	78.7	1124	256Vdc, 120Ah, 30.72kWh	Interp.
	SHVP307120A02-2	39.4	23.6	78.7	1305	307.2Vdc, 120Ah, 36.864kWh	Interp.
	SHVP307120C02-2	39.4	23.6	78.7	1283	307.2Vdc, 120Ah, 36.864kWh	Interp.
	SHVP358120A02-2	39.4	23.6	78.7	1464	358.4Vdc, 120Ah, 43.008 kWh	Interp.
	SHVP358120C02-2	39.4	23.6	78.7	1442	358.4Vdc, 120Ah, 43.008 kWh	Interp.
	SHVP409120A02-2	39.4	23.6	78.7	1623	409.6Vdc, 120Ah, 49.152 kWh	Interp.
	SHVP409120C02-2	39.4	23.6	78.7	1601	409.6Vdc, 120Ah, 49.152 kWh	Interp.
	SHVP460120A02-2	39.4	23.6	78.7	1781	460.8Vdc, 120Ah, 55.296 kWh	Interp.
SHVP460120C02-2	39.4	23.6	78.7	1759	460.8Vdc, 120Ah, 55.296 kWh	Interp.	

1. "C01" cabinets are depopulated from "A01" cabinets (No BAU)

Manufacturer: Shuangdeng Group Co., Ltd.
Product Type: Batteries
Model Line: Rechargeable Lithium Ion Battery

Seismic Parameters	Building Codes
$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$ $S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	$I_p=1.5$ CBC 2025

TABLE 1

Mounting Configuration: Base Mounted - Rigid

Construction Summary

Carbon steel cabinet

Options Summary

5 to 12 Battery Modules
2-line or 3-line

Model Line	Model ¹	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Rechargeable Lithium Ion Battery (2P40 2-Line)	SHVP384080C01-2	39.4	23.6	78.7	1098	384Vdc, 80Ah, 30.72kWh	Interp.
	SHVP448080A01-2	39.4	23.6	78.7	1248	448Vdc, 80Ah, 35.84kWh	Interp.
	SHVP448080C01-2	39.4	23.6	78.7	1226	448Vdc, 80Ah, 35.84kWh	Interp.
	SHVP512080A01-2	39.4	23.6	78.7	1376	512Vdc, 80Ah, 40.96kWh	Interp.
	SHVP512080C01-2	39.4	23.6	78.7	1354	512Vdc, 80Ah, 40.96kWh	Interp.
	SHVP576080A01-2	39.4	23.6	78.7	1504	576Vdc, 80Ah, 46.08kWh	Interp.
	SHVP576080C01-2	39.4	23.6	78.7	1482	576Vdc, 80Ah, 46.08kWh	Interp.
	SHVP640080A01-2	39.4	23.6	78.7	1631	640Vdc, 80Ah, 51.20kWh	Interp.
	SHVP640080C01-2	39.4	23.6	78.7	1609	640Vdc, 80Ah, 51.20kWh	Interp.
Rechargeable Lithium Ion Battery (2P50 3-Line)	SHVP192100A01	39.4	23.6	78.7	750	192Vdc, 100Ah, 19.20kWh	Interp.
	SHVP192100C01	39.4	23.6	78.7	728	192Vdc, 100Ah, 19.20kWh	Interp.
	SHVP256100A01	39.4	23.6	78.7	882	256Vdc, 100Ah, 25.60kWh	Interp.
	SHVP256100C01	39.4	23.6	78.7	860	256Vdc, 100Ah, 25.60kWh	Interp.
	SHVP320100A01	39.4	23.6	78.7	1014	320Vdc, 100Ah, 32.00kWh	Interp.
	SHVP320100C01	39.4	23.6	78.7	992	320Vdc, 100Ah, 32.00kWh	Interp.
	SHVP384100A01	39.4	23.6	78.7	1146	384Vdc, 100Ah, 38.40kWh	Interp.
	SHVP384100C01	39.4	23.6	78.7	1124	384Vdc, 100Ah, 38.40kWh	Interp.
	SHVP448100A01	39.4	23.6	78.7	1279	448Vdc, 100Ah, 44.80kWh	Interp.
	SHVP448100C01	39.4	23.6	78.7	1257	448Vdc, 100Ah, 44.80kWh	Interp.
	SHVP512100A01	39.4	23.6	78.7	1411	512Vdc, 100Ah, 51.20kWh	Interp.
	SHVP512100C01	39.4	23.6	78.7	1389	512Vdc, 100Ah, 51.20kWh	Interp.
	SHVP576100A01	39.4	23.6	78.7	1543	576Vdc, 100Ah, 57.60kWh	Interp.
	SHVP576100C01	39.4	23.6	78.7	1521	576Vdc, 100Ah, 57.60kWh	Interp.
Rechargeable Lithium Ion Battery (2P50 2-Line)	SHVP192100A01-2	39.4	23.6	78.7	750	192Vdc, 100Ah, 19.20kWh	Interp.
	SHVP192100C01-2	39.4	23.6	78.7	728	192Vdc, 100Ah, 19.20kWh	Interp.
	SHVP256100A01-2	39.4	23.6	78.7	882	256Vdc, 100Ah, 25.60kWh	Interp.
	SHVP256100C01-2	39.4	23.6	78.7	860	256Vdc, 100Ah, 25.60kWh	Interp.

1. "C01" cabinets are depopulated from "A01" cabinets (No BAU)

Manufacturer: Shuangdeng Group Co., Ltd.
Product Type: Batteries
Model Line: Rechargeable Lithium Ion Battery

Seismic Parameters	Building Codes
$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$ $S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	$I_p=1.5$ CBC 2025

TABLE 1 Mounting Configuration: Base Mounted - Rigid

Construction Summary

Carbon steel cabinet

Options Summary

5 to 12 Battery Modules
2-line or 3-line

Model Line	Model ¹	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Rechargeable Lithium Ion Battery (2P50 2-Line)	SHVP320100A01-2	39.4	23.6	78.7	1014	320Vdc, 100Ah, 32.00kWh	Interp.
	SHVP320100C01-2	39.4	23.6	78.7	992	320Vdc, 100Ah, 32.00kWh	Interp.
	SHVP384100A01-2	39.4	23.6	78.7	1146	384Vdc, 100Ah, 38.40kWh	Interp.
	SHVP384100C01-2	39.4	23.6	78.7	1124	384Vdc, 100Ah, 38.40kWh	Interp.
	SHVP448100A01-2	39.4	23.6	78.7	1279	448Vdc, 100Ah, 44.80kWh	Interp.
	SHVP448100C01-2	39.4	23.6	78.7	1257	448Vdc, 100Ah, 44.80kWh	Interp.
	SHVP512100A01-2	39.4	23.6	78.7	1411	512Vdc, 100Ah, 51.20kWh	Interp.
	SHVP512100C01-2	39.4	23.6	78.7	1389	512Vdc, 100Ah, 51.20kWh	Interp.
	SHVP576100A01-2	39.4	23.6	78.7	1543	576Vdc, 100Ah, 57.60kWh	Interp.
	SHVP576100C01-2	39.4	23.6	78.7	1521	576Vdc, 100Ah, 57.60kWh	Interp.
	SHVP640100A01-2	39.4	23.6	78.7	1676	640Vdc, 100Ah, 64.00kWh	Interp.
	SHVP640100C01-2	39.4	23.6	78.7	1653	640Vdc, 100Ah, 64.00kWh	Interp.
Rechargeable Lithium Ion Battery (2P100 3-line)	HVC256200A01	39.4	23.6	78.7	1190	256Vdc, 200Ah, 51.20kWh	Interp.
	HVC256200C01	39.4	23.6	78.7	1168	256Vdc, 200Ah, 51.20kWh	Interp.
	HVC307200A01	39.4	23.6	78.7	1358	307.2Vdc, 200Ah, 61.44kWh	Interp.
	HVC307200C01	39.4	23.6	78.7	1336	307.2Vdc, 200Ah, 61.44kWh	Interp.
	HVC358200A01	39.4	23.6	78.7	1526	358.4Vdc, 200Ah, 71.68kWh	Interp.
	HVC358200C01	39.4	23.6	78.7	1504	358.4Vdc, 200Ah, 71.68kWh	Interp.
	HVC409200A01	39.4	23.6	78.7	1693	409.6Vdc, 200Ah, 81.92kWh	Interp.
	HVC409200C01	39.4	23.6	78.7	1671	409.6Vdc, 200Ah, 81.92kWh	Interp.
	HVC460200A01	39.4	23.6	78.7	1861	460.8Vdc, 200Ah, 92.16kWh	Interp.
	HVC460200C01	39.4	23.6	78.7	1839	460.8Vdc, 200Ah, 92.16kWh	Interp.
	HVC512200A01	39.4	23.6	78.7	2028	512.0Vdc, 200Ah, 102.40kWh	Interp.
	HVC512200C01	39.4	23.6	78.7	2006	512.0Vdc, 200Ah, 102.40kWh	Interp.
	HVC563200A01	39.4	23.6	78.7	2196	563.2Vdc, 200Ah, 112.64kWh	Interp.
	HVC563200C01	39.4	23.6	78.7	2174	563.2Vdc, 200Ah, 112.64kWh	Interp.
HVC614200A01	39.4	23.6	78.7	2363	614.4Vdc, 200Ah, 122.88kWh	Interp.	
HVC614200C01	39.4	23.6	78.7	2341	614.4Vdc, 200Ah, 122.88kWh	Interp.	

1. "C01" cabinets are depopulated from "A01" cabinets (No BAU)



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC251764-01-R0

Manufacturer: Shuangdeng Group Co., Ltd.
Product Type: Batteries
Model Line: Rechargeable Lithium Ion Battery

Seismic Parameters	Building Codes
$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$ $S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	$I_p=1.5$ CBC 2025

TABLE 1 Mounting Configuration: Base Mounted - Rigid

Construction Summary

Carbon steel cabinet

Options Summary

5 to 12 Battery Modules
 2-line or 3-line

Model Line	Model ¹	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Rechargeable Lithium Ion Battery (2P100 2-line)	HVC256200A01-2	39.4	23.6	78.7	1190	256Vdc, 200Ah, 51.20kWh	Interp.
	HVC256200C01-2	39.4	23.6	78.7	1168	256Vdc, 200Ah, 51.20kWh	Interp.
	HVC307200A01-2	39.4	23.6	78.7	1358	307.2Vdc, 200Ah, 61.44kWh	Interp.
	HVC307200C01-2	39.4	23.6	78.7	1336	307.2Vdc, 200Ah, 61.44kWh	Interp.
	HVC358200A01-2	39.4	23.6	78.7	1526	358.4Vdc, 200Ah, 71.68kWh	Interp.
	HVC358200C01-2	39.4	23.6	78.7	1504	358.4Vdc, 200Ah, 71.68kWh	Interp.
	HVC409200A01-2	39.4	23.6	78.7	1693	409.6Vdc, 200Ah, 81.92kWh	Interp.
	HVC409200C01-2	39.4	23.6	78.7	1671	409.6Vdc, 200Ah, 81.92kWh	Interp.
	HVC460200A01-2	39.4	23.6	78.7	1861	460.8Vdc, 200Ah, 92.16kWh	Interp.
	HVC460200C01-2	39.4	23.6	78.7	1839	460.8Vdc, 200Ah, 92.16kWh	Interp.
	HVC512200A01-2	39.4	23.6	78.7	2028	512.0Vdc, 200Ah, 102.40kWh	Interp.
	HVC512200C01-2	39.4	23.6	78.7	2006	512.0Vdc, 200Ah, 102.40kWh	Interp.
	HVC563200A01-2	39.4	23.6	78.7	2196	563.2Vdc, 200Ah, 112.64kWh	Interp.
	HVC563200C01-2	39.4	23.6	78.7	2174	563.2Vdc, 200Ah, 112.64kWh	Interp.
	HVC614200A01-2	39.4	23.6	78.7	2668	614.4Vdc, 200Ah, 122.88kWh	2,3
	HVC614200C01-2	39.4	23.6	78.7	2667	614.4Vdc, 200Ah, 122.88kWh	3

1. "C01" cabinets are depopulated from "A01" cabinets (No BAU)

