APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0861

HCAI Special Seismic Certification Preapproval (OSP)

Type: [X] New [ ] Renewal

Manufacturer Information

Manufacturer: Stored Energy Systems, LLC

Manufacturer's Technical Representative: Sam Coleman

Mailing Address: 1840 Industrial Circle, Longmont, CO 80501

Telephone: (303) 678-7500 Email: samc@sens-usa.com

Product Information

Product Name: MicroGenius® Genset Battery Chargers and EnerGenius® DC Ruggedized Battery Charger & DC Supply

Product Model Number(s): See attached

Product Category: UPS and Batteries

Product Sub-Category: Battery Chargers

General Description: MicroGenius® wall mounted, or equipment mounted Genset Battery Chargers, EnerGenius® wall mounted, or equipment mounted DC Ruggedized Battery Chargers & DC Supplies, and EnerGenius® base mounted DC Ruggedized Battery Charger & DC Supplies.

Mounting Description: Any Vertical Surface Mounted Rigid (tested wall mounted both rigid and flexible) -

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Dynamic Certification Laboratories, LLC

Contact Person: Rachel Wolfe

Mailing Address: 1315 Greg Street, Sparks, NV 89431

Telephone: (775) 358-5085 Email: rachel.wolfe@shaketest.com

Title: Seismic Test Engineer

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
- [x] ICC-ES AC156
- [ ] IEEE 344
- [ ] IEEE 693
- [ ] NEBS 3
- [ ] Other (Please Specify):

Testing Laboratory

Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)

Contact Person: Josh Sailer

Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431

Telephone: (775) 358-5085 Email: josh@shaketest.com

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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.5 at z/h=1.0; 1.13 at z/h=0

S_{DS} (Design spectral response acceleration at short period, g) = Sds=2.0g at z/h=1.0; Sds=2.5g at z/h=0.0

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 08/11/2030

Date: 8/11/2025

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: S_{DS} (g) = 2.0 z/h = 1

Condition of Approval (if applicable):

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Special Seismic Certification

Table 1 - Certified Components - MicroGenius 2, MicroGenius S2 and S4

DCL Project Number: 10644-2301

Manufacturer: Stored Energy Systems

Product Family: Battery Chargers for Gensets

Product Line: MicroGenius Intelligent Engine Start Battery Chargers

Mounting Configuration: Rigid and Isolated Wall Mount

Test Levels: Sds = 2.00g, z/h=1.0 ; Sds = 2.50g, z/h=0.0

Model Family	Model Number [1]	NEMA Rating	Enclosure Material	Max. Dimensions (in)[2]			Max. Weight (lb.)	Unit
				Width	Depth	Height		
MicroGenius 2	M1-20-1006-A	1	Aluminum Base with a Stainless Steel Cover	5.6	2.8	10.0	4.2	UUT-02a,b
	ML-22-0006-AN			5.8	4.0	12.4	6.0	UUT-09a,b
	MX-XX-XXXX-XX			5.8	4.0	12.4	7.4	Interpolated
	M7-22-2525-FT			5.8	4.0	12.4	7.4	UUT-01a,b
MicroGenius S2 and S4	SX-XXX-XXXXXXXX			12.0	4.8	17.0	14.8	Extrapolated
	S2-B20-B0000000			20.0	7.6	17.5	16.4	UUT-03a,b
	SX-XXX-XXXXXXXX			14.3	10.5	16.5	37.0	Interpolated
	S4-C30-K0000000			22.0	15.5	17.5	40.6	UUT-04a,b

Notes:
1. Options/Subcomponents: See Table 2 for nomenclature table.
2. Maximum dimensions and weights for tested units include rain shields.

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Table 2 - Nomenclature Table - MicroGenius 2, MicroGenius S2 and S4

DCL Project Number: 10644-2301

Manufacturer: Stored Energy Systems

Product Family: Battery Chargers for Gensets

Product Line: MicroGenius Intelligent Engine Start Battery Chargers

Mounting Configuration: Rigid and Isolated Wall Mount

Test Levels: Sds = 2.00g, z/h=1.0 ; Sds = 2.50g, z/h=0.0

MicroGenius 2 Nomenclature
Sample Part Number: AB-C-D-EF

Sample Value	Category	Allowable Value	Definition	Unit
A	Product Type	M	MicroGenius 2	UUT-01a,b; UUT-02a,b; UUT-09a,b
B	Power	1	180 W	UUT-02a,b
		3	300 W	Interpolated
		4	450 W	Interpolated
		6	600 W	Interpolated
		7	750 W	UUT-01a,b
		F	180 W	Interpolated
		G	300 W	Interpolated
		H	450 W	Interpolated
		L	750 W	UUT-09a,b
C	Output Voltage	22	12/24 Volts	UUT-01a,b; UUT-09a,b
		20	120 Volts	UUT-02a,b
D	Output Current	1006	10 Amp at 12 V; 6 Amp at 24 V (180 W only)	UUT-02a,b
		1210	12 Amp at 12 V; 10 Amp at 24 V (300 W only)	Interpolated
		1515	15 Amp at 12 V; 15 Amp at 24 V (450 W only)	Interpolated
		2020	20 Amp at 20 V; 12 Amp at 24 V (600 W only)	Interpolated
		2525	25 Amp at 25 V; 12 Amp at 24 V (750 W only)	UUT-01a,b
		0606	6 Amp at 36/48V (500W)	Interpolated
		1212	12 Amp at 36/48 V (750W)	Interpolated
		0006	6 Amp at 120V (750W)	UUT-09a,b
E	Alarm & Communication Options	A	Base Mode	UUT-02a,b; UUT-09a,b
		D	Base Mode, LCD, USBC, 5 alarm relays	Interpolated
		E	Base Mode, LCD, USBC, 2 alarm relays	Interpolated
		F	Base Mode, LCD, USBC, 5 alarm relays, Keypad	UUT-01a,b
F	Adapter Plate & Remote Temperature Sensor Options	Blank	None	UUT-02a,b
		F	FC to MicroGenius 2 adapter plate	Interpolated
		G	MicroGenius 15 to MicroGenius 2 adapter plate	Interpolated
		L	LC to MicroGenius 2 adapter plate	Interpolated
		N	NRG10 to MicroGenius 2 adapter plate	UUT-09a,b
		T	Remote Temperature Sensor	UUT-01a,b

MicroGenius S2 and S4 Nomenclature
Sample Part Number: AB-CDE-F

Sample Value	Category	Allowable Value	Definition	Unit
A	Product Type	S	MicroGenius S	UUT-03a,b; UUT-04a,b
B	Enclosure	2	S2 Chassis	UUT-03a,b
		4	S4 Chassis	UUT-04a,b
C	AC & DC Protection Configuration	A	Standard, No Circuit Breakers	Extrapolated
		B	AC and DC Circuit Breakers	UUT-03a,b
		C	AC/DC Circuit Breakers, Supplementary Surge Protection	UUT-04a,b
D	Communications	0	J-1939 and Modbus RS-485	Extrapolated
		1	J-1939 and Modbus TCP/IP	Extrapolated
		2	J-1939 and Modbus RS-485 with RJ-45	UUT-03a,b
		3	J-1939 and Modbus TCP/IP with RJ-45	UUT-04a,b
E	Configuration	0	Standard Mounting Kit	UUT-03a,b; UUT-04a,b
F	Output Current (S2)	B	20 Amp	UUT-03a,b
		D	30 Amp	Interpolated
		E	40 Amp	Interpolated
		G	50 Amp	Interpolated
	Output Current (S4)	C	25 Amp	Interpolated
		G	50 Amp	Interpolated
		J	75 Amp	Interpolated
		K	100 Amp	UUT-04a,b

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Table 3 - Certified Components - EnerGenius Compact and Wallbox

DCL Project Number: 10644-2301

Manufacturer: Stored Energy Systems

Product Family: Battery Chargers for Gensets

Product Line: EnerGenius Wall Mounted Automatic DC Power Supply/Battery Charger

Mounting Configuration: Rigid and Isolated Wall Mount

Test Levels: Sds = 2.00g, z/h=1.0 ; Sds = 2.50g, z/h=0.0

Model Family	Model Number [1]	NEMA Rating	Enclosure Material	Max. Dimensions (in)			Max. Weight (lb.)	Unit
				Width	Depth	Height		
Compact	DS-F-120-025-AAB-000	1	Aluminum	11	8	20	38	UUT-05a,b
	DS-F-XXX-XXX-A-X-X-0XX			11	8	20	38	Interpolated
Wallbox	DW-FX-XXXX-XXX-X-XXX-0XX			21	8	31	85	Interpolated
	DW-FH-240S-050-0-BDB-000			21	8	31	85	UUT-06a,b

Notes:

1. Options/Subcomponents: See Table 4 for nomenclature table.

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Table 4 - Nomenclature Table - EnerGenius Compact and Wallbox

DCL Project Number: 10644-2301

Manufacturer: Stored Energy Systems

Product Family: Battery Chargers for Gensets

Product Line: EnerGenius Wall Mounted Automatic DC Power Supply/Battery Charger

Mounting Configuration: Rigid and Isolated Wall Mount

Test Levels: Sds = 2.00g, z/h=1.0 ; Sds = 2.50g, z/h=0.0

EnerGenius Compact Nomenclature
Sample Part Numer: AB-C-D-E-FGH-IJ

Sample Value	Category	Allowable Value	Definition	Unit
A	Product Type	D	EnerGenius DC	UUT-05a,b
B	Enclosure	S	7 kW Compact	UUT-05a,b
C	AC Input Voltage	F	Three Phase 380-480 VAC Nominal 50/60 Hz	UUT-05a,b
D	DC Output Voltage	120	120 VDC	UUT-05a,b
		240	240 VDC	Same as UUT-06a,b
E	Output Current	006	6 Amp at 240 VDC	Same as UUT-05a,b
		012	12 Amp at 120 or 240 VDC	Same as UUT-05a,b
		025	25 Amp at 120 or 240 VDC	UUT-05a,b
		035	35 Amp at 120 VDC	Same as UUT-06a,b
		050	50 Amp at 120 VDC	Same as UUT-06a,b
F	Display & Comunication	A	LDC, Keypad Control	UUT-05a,b
G	Accessory Hardware	0	None	Extrapolated
		A	High Current AC Alarm Relays	UUT-05a,b
H	Surge Protection	A	Standard AC/DC	Extrapolated
		B	Supplementary	UUT-05a,b
I	Mounting	0	Wallmount	UUT-05a,b
J	Configuration	00	Standard	UUT-05a,b
		01	Labeled Wires	Same as tested
		XX	Custom Configuration	Same as tested

EnerGenius Wallbox Nomenclature
Sample Part Numer: AB-CD-EF-G-H-IJK-LM

Sample Value	Category	Allowable Value	Definition	Unit
A	Product Type	D	EnerGenius DC	UUT-06a,b
B	Enclosure	W	14 kW Wallbox Charger	UUT-06a,b
C	AC Input Voltage	F	Three Phase 380-480 VAC Nominal 50/60 Hz	UUT-06a,b
D	AC Interupt	S	Standard Interrupt Rating (24 kAIC)	Same as UUT-06a,b
		H	High Interrupt Rating (65 kAIC)	UUT-06a,b
E	DC Output Voltage	120	120 VDC	Same as UUT-05a,b
		240	240 VDC	UUT-06a,b
F	DC Interupt	S	Standard Interrupt Rating (10 kAIC)	UUT-06a,b
		H	High Interrupt Rating (25 kAIC)	Same as UUT-06a,b
G	Output Current	025	25 Amp at 240 VDC	Same as UUT-05a,b
		035	35 Amp at 240 VDC	Interpolated
		050	50 Amp at 120 or 240 VDC	UUT-06a,b
		075	75 Amp at 120 VDC	Same as UUT-06a,b
		100	100 Amp at 120 VDC	Same as UUT-06a,b
H	Redundancy/Termination	0	No Redundancy	UUT-06a,b[1]
		1	N +1	Same as UUT-06a,b
I	Display & Comunication	A	Standard; LDC, Keypad Control	Extrapolated
		B	Standard plus Breaker Status	UUT-06a,b
J	Accessory Hardware	0	None	Extrapolated
		A	High Current AC Alarm Relays	Extrapolated
		B	High Current AC/DC Alarm Relays	Extrapolated
		C	AC Breaker Shunt Trip	Extrapolated
		D	Options B and C	UUT-06a,b
K	Surge Protection	A	Standard AC/DC	Extrapolated
		B	Supplementary	UUT-06a,b
L	Mounting	0	Wallmount	UUT-06a,b
M	Configuration	00	Standard	UUT-06a,b
		01	Labeled Wires	Same as tested
		XX	Custom Configuration within OSHPD guidelines	Same as tested

Note:
1. The maximum number of modules (two modules) were tested in UUT-06a,b, which would be the same configuration as one module plus one redundant module

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Table 5 - Certified Components - EnerGenius 56kW Cabinets

DCL Project Number: 10644-2301

Manufacturer: Stored Energy Systems

Product Family: Battery Chargers for Gensets

Product Line: EnerGenius Base Mounted Automatic DC Power Supply/Battery Charger

Mounting Configuration: Rigid Base Mounted

Test Levels: Sds = 2.00g, z/h=1.0 ; Sds = 2.50g, z/h=0.0

Model Number [1]	NEMA Rating	Enclosure Material	Max. Dimensions (in)			Max. Weight (lb.)	Unit
			Width	Depth	Height		
DK-FH-120H-400-050-0-BFB-200	1	Aluminum	29	28	53	267	UUT-07
DK-FX-XXXX-XXX-XXX-X-XXX-XXX			29	28	53	455	Interpolated
DK-FH-120H-400-400-0-BFB-200			29	28	53	455	UUT-08

Notes:
1. Options/Subcomponents: See Table 6 for nomenclature table

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Table 6 - Nomenclature Table - EnerGenius 56kW Cabinets

DCL Project Number: 10644-2301

Manufacturer: Stored Energy Systems

Product Family: Battery Chargers for Gensets

Product Line: EnerGenius Base Mounted Automatic DC Power Supply/Battery Charger

Mounting Configuration: Rigid Base Mount

Test Levels: Sds = 2.00g, z/h=1.0 ; Sds = 2.50g, z/h=0.0

EnerGenius 56kW Cabinet Nomenclature
Sample Part Number: AB-CD-EF-G-H-I-JKL-MN

Sample Value	Category	Allowable Value	Definition	Unit
A	Product Type	D	EnerGenius DC	UUT-07, UUT-08
B	Enclosure	K	Cabinet	UUT-07, UUT-08
C	AC Input Voltage	F	Three Phase 380-480 VAC Nominal 50/60 Hz	UUT-07, UUT-08
D	AC Interrupt	S	Standard Interrupt Rating (24 kAIC)	Extrapolated
		H	High Interrupt Rating (65 kAIC)	UUT-07, UUT-08
E	DC Output Voltage	120	120 VDC	UUT-07, UUT-08
		240	240 VDC	Same as tested[2]
F	DC Interrupt	S	Standard Interrupt Rating (10 kAIC)	Depopulated
		H	High Interrupt Rating (25 kAIC)	UUT-07, UUT-08
G	Output Current	050	50 Amp at 240 VDC	Depopulated
		100	100 Amp at 120 VDC or 240 VDC	Depopulated
		150	150 Amp at 240 VDC	Depopulated
		200	200 Amp at 120 VDC or 240 VDC	Depopulated
		300	300 Amp at 120 VDC	Depopulated
		400	400 Amp at 120 VDC	UUT-07, UUT-08
H	Factory Installed Output Current	025	25 Amp at 240 VDC	Extrapolated
		050	50 Amp at 120 or 240 VDC	UUT-07
		075	75 Amp at 120 VDC	Interpolated
		100	100 Amp at 120 or 240 VDC	Interpolated
		125	125 Amp at 240 VDC	Interpolated
		150	150 Amp at 120 or 240 VDC	Interpolated
		175	175 Amp at 240 VDC	Interpolated
		200	200 Amp at 120 VDC or 240 VDC	Interpolated
		250	250 Amp at 120 VDC	Interpolated
		300	300 Amp at 120 VDC	Interpolated
		350	350 Amp at 120 VDC	Interpolated
		400	400 Amp at 120 VDC	UUT-08
I	Redundancy/Termination	0	No Redundancy	UUT-07, UUT-08
		1	N +1	Same as tested[1]
		2	N +2	Same as tested[1]
		A	Dual AC with common DC	Extrapolated
		B	Dual System	Extrapolated
J	Display & Communications	A	LCD, Keypad	Depopulated
		B	LCD, Keypad, Breaker Status	UUT-07, UUT-08
K	Accessory Hardware	0	None	Extrapolated
		A	High Current AC Alarm Relays	Extrapolated
		B	High Current AC/DC Alarm Relays	Extrapolated
		C	AC Breaker Shunt Trip	Extrapolated
		D	Options B and C	Extrapolated
		E	2x Option B	Extrapolated
		F	2x Options B and C	UUT-07, UUT-08
L	Surge Protection	A	Standard AC/DC	Extrapolated
		B	Supplementary	UUT-07, UUT-08
M	Mounting	1	Floor mount	Extrapolated
		2	Floor mount with toplift	UUT-07, UUT-08
N	Labeling Configuration	00	Standard	UUT-07, UUT-08
		01	Labeled Wires	Same as tested
		XX	Custom Configuration within OSHPD guidelines	Same as tested

Note:

1. The maximum number of modules (eight modules) were tested in UUT-08, which would be the same configuration as six modules plus two redundant modules or seven modules plus one redundant module

2. The difference between 120V and 240V is software

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