



**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-0365**

**HCAI Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Current Lighting

Manufacturer's Technical Representative: Travis Lyon

Mailing Address: 701 Millennium Blvd, Greenville, SC 29607

Telephone: (864) 432-3016

Email: travis.lyon@currentlighting.com

**Product Information**

Product Name: LSN D Series Lighting Inverter

Product Model Number(s): See Attachment

Product Category: UPS and Batteries

Product Sub-Category: Lighting Inverter Systems

General Description: Emergency power backup system (automatic transfer) for lighting applications constructed with light gauge carbon steel NEMA1 enclosure with internal components as outlined in attachments.

Mounting Description: Several - See Certified Product Tables and UUT Sheet

Tested Seismic Enhancements: None

**Applicant Information**

Applicant Company Name: W.E. Gundy & Associates, Inc.

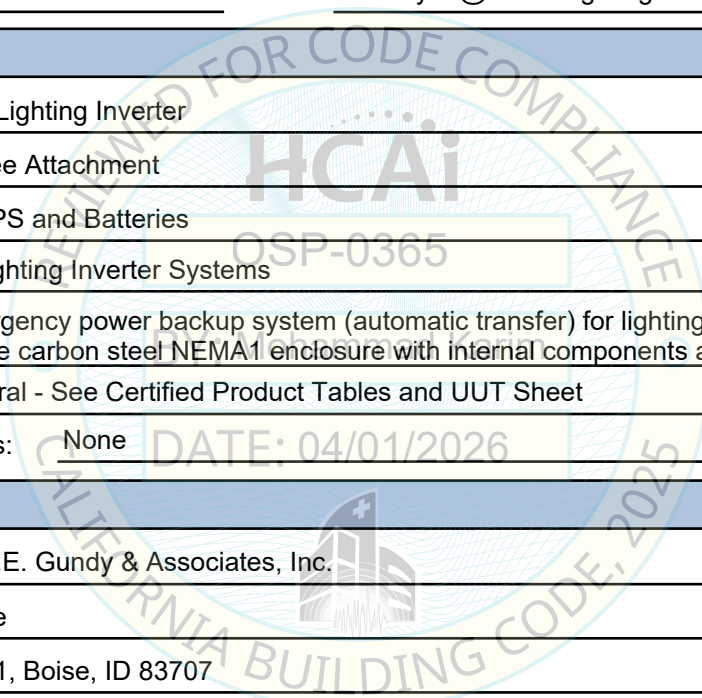
Contact Person: Travis Soppe

Mailing Address: PO Box 9121, Boise, ID 83707

Telephone: (208) 342-5989

Email: tsoppe@wegai.com

Title: SE





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

**California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)**

Company Name: W.E. GUNDY & ASSOCIATES INC.

Name: Travis Soppe California License Number: S6115

Mailing Address: P.O. Box 9121, Boise, ID 83707

Telephone: (208) 342-5989 Email: tsoppe@wegai.com

**Certification Method**

- GR-63-Core
- ICC-ES AC156
- IEEE 344
- IEEE 693
- NEBS 3
- Other (Please Specify): \_\_\_\_\_

**Testing Laboratory**

Company Name: CLARK TESTING LABORATORY, INC.

Contact Person: Devon Lohr

Mailing Address: 1801 Route 51, Jefferson Hills PA 15025

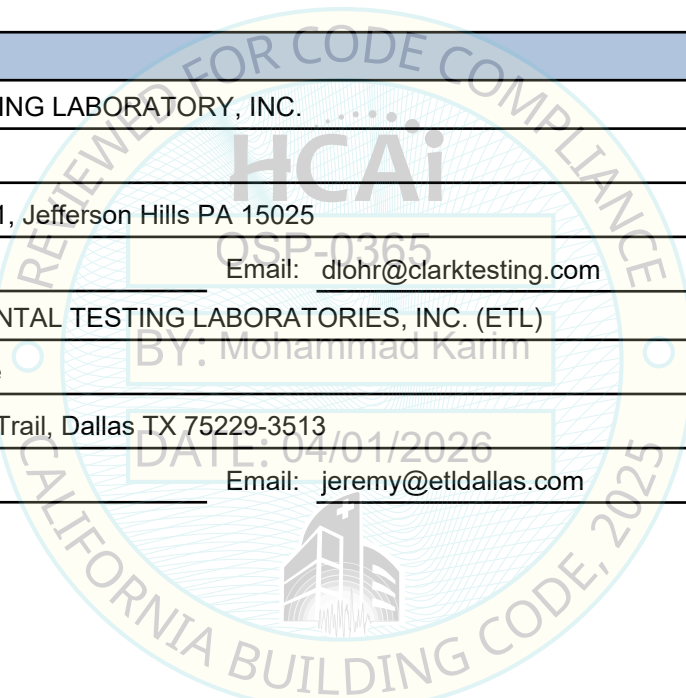
Telephone: (412) 387-1001 Email: dlohr@clarktesting.com

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657 Email: jeremy@etldallas.com





**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= 3.20 (A Rig-H), g= 2.15

Vertical (A Flx-V), g= 1.68 (A Rig-V), g= 0.68

SDS (Design spectral response acceleration at short period, g) = 2.50 at z/h = 0 and 2.00 at z/h = 1.0

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

Ru (Structure ductility reduction factor) = 1 @ 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 04/01/2032**

Date: 4/1/2026

Name: Mohammad Karim

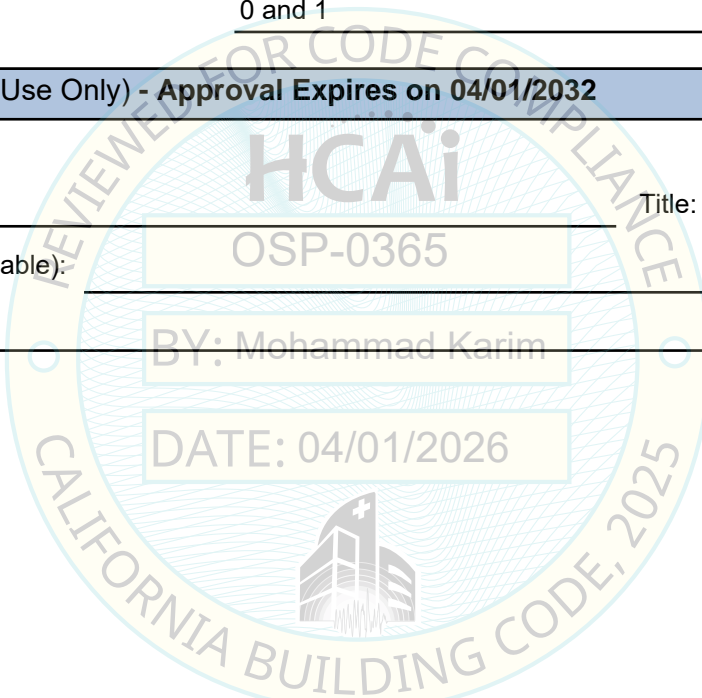
Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

OSP-0365

BY: Mohammad Karim

DATE: 04/01/2026



**TABLE 1**

**CURRENT LIGHTING LSN INVERTER  
CERTIFIED COMPONENTS TABLE**



Model Number <sup>1</sup>	Rating KVA	In-Out Voltage (VAC)	Total Batteries / BC's	Single BC WT (lb)	Max CC WT (lb)	Max Dimensions (in) <sup>2</sup>			System Weight (lbs)	UUT <sup>3</sup>
						Width	Depth	Height		
<b>D-120-01-S-120-A-15-01-EML-RSP-SMT-IBS-C10-AR15-S</b>	<b>1.0</b>	<b>120 - 347</b>	<b>8 / 1</b>	<b>418</b>	<b>357</b>	<b>30</b>	<b>18.63</b>	<b>92</b>	<b>840</b>	<b>UUT<sub>x</sub>-1</b>
D-xxx-01-S-xxx-y-S	1.0	120 - 347	8 / 1	418	357	30	18.63	92	775	interpolated
D-xxx-02-S-xxx-y-S	2.0	120 - 347	8 / 1	520	447	30	18.63	92	967	interpolated
D-xxx-27-S-xxx-y-S	2.7	120 - 347	8 / 1	667	387	30	18.63	92	1054	interpolated
D-xxx-37-S-xxx-y-S	3.7	120 - 347	8 / 1	806	353	30	18.63	92	1160	interpolated
D-xxx-55-S-xxx-y-SLM-S	5.5	120 - 347	16 / 2	660	444	57	18.63	92	1764	interpolated
D-xxx-55-S-xxx-y-S	5.5	120 - 347	16 / 2	667	444	72	18.63	92	1778	interpolated
<b>D120-66S120-A2014-SMT-IBS-S</b>	<b>6.6</b>	<b>120 - 347</b>	<b>16 / 2</b>	<b>730</b>	<b>373</b>	<b>57</b>	<b>18.63</b>	<b>92</b>	<b>1833</b>	<b>UUT<sub>y</sub>-1 / 2</b>
D-xxx-66-S-xxx-y-SLM-S	6.6	120 - 347	16 / 2	730	489	57	18.63	92	1949	interpolated
D-xxx-66-S-xxx-y-S	6.6	120 - 347	16 / 2	739	489	72	18.63	92	1967	interpolated
D-xxx-83-S-xxx-y-SLM-S	8.3	120 - 347	24 / 2	890	505	57	18.63	92	2285	interpolated
D-xxx-83-S-xxx-y-S	8.3	120 - 347	24 / 2	901	505	72	18.63	92	2307	interpolated
D-xxx-10-S-xxx-y-SLM-S	10.0	120 - 347	24 / 2	995	609	57	18.63	92	2599	interpolated
D-xxx-10-S-xxx-y-S	10.0	120 - 347	24 / 2	1009	609	72	18.63	92	2626	interpolated
D-xxx-12-S-xxx-y-SLM-S	12.5	120 - 347	24 / 2	1095	481	57	18.63	92	2671	interpolated
D-xxx-12-S-xxx-y-S	12.5	120 - 347	24 / 2	1110	481	72	18.63	92	2701	interpolated
D-xxx-15-S-xxx-y-S	15.0	120 - 347	36 / 3	1009	711	72	18.63	92	3738	interpolated
<b>D-277-17-S-120-A-80-01-EML-RSP-SMT-IBS-C20-S</b>	<b>17.5</b>	<b>120 - 347</b>	<b>36 / 3</b>	<b>1110</b>	<b>692</b>	<b>72</b>	<b>18.63</b>	<b>92</b>	<b>4016</b>	<b>UUT<sub>x</sub>-2 / 3</b>

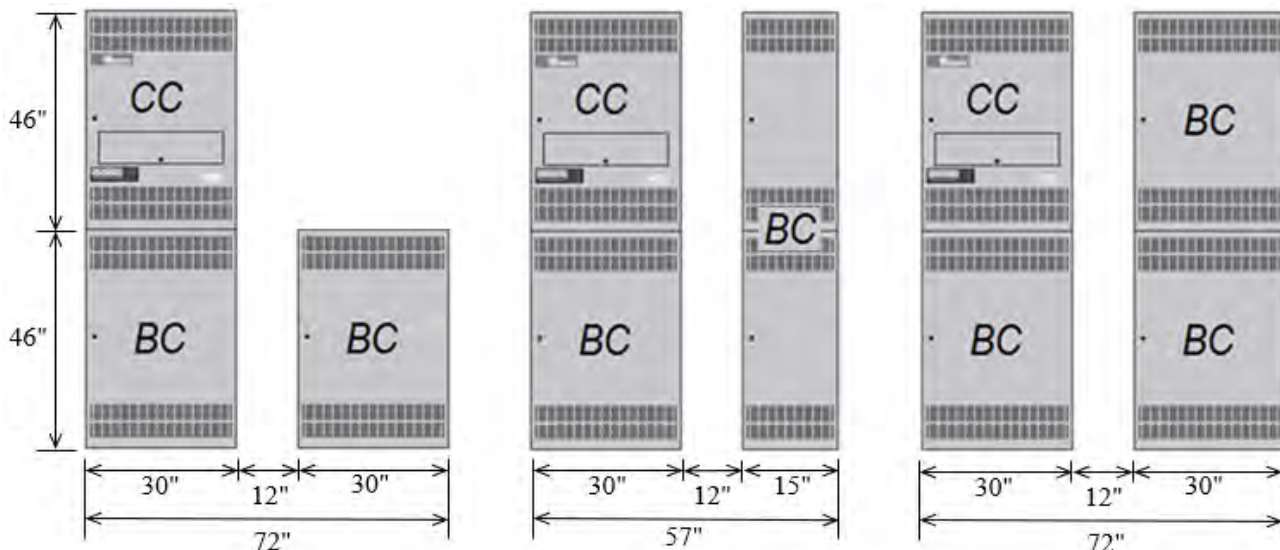
<sup>1</sup> Model numbers shown have xxx shown where the system input/output voltage can vary. Additionally all the options within the labeling system y above are not listed for clarity. Refer to the referenced ordering guide for a more detailed list of the options provided.

<sup>2</sup> Systems consist of a stacked Control Cabinet (CC) and single Battery Cabinet (BC) and additional single, single slim, or stacked BC's.

<sup>3</sup> The units were tested at different times and the subscripts on the UUTs reference the following seismic test reports:  
x = 1269-03    y = 17771-R3

<sup>4</sup> NEMA1 enclosures are constructed of carbon steel.

<sup>5</sup> All units, double stack and single stack cabinets, are both wall / floor mounted.



# D Series

## Single-Phase Central Lighting Inverters

### FEATURES

#### Application

Designed for indoor installation in commercial or industrial applications.

#### Operation

When normal utility-supplied power is present, the LSN model central lighting inverter provides load-side line conditioning with "brownout" protection, and charges the system batteries when required. When utility-supplied power is interrupted, or the voltage varies from predetermined limits, the system will automatically and instantaneously transfer to emergency mode without interruption to connected loads. DC battery-derived emergency power is inverted to AC power and supplied in a pure sine wave output form for 90 minutes (standard run time). A low voltage battery disconnect circuit prevents "deep discharge" damage to the batteries during prolonged power outages. When normal power is restored the system will automatically restart, providing power to connected loads and recharging the batteries. The charging circuit will bring the batteries to full recharge within UL time standards.

#### Construction

The LSN cabinet is constructed of steel, finished with a light gray paint and features locking cabinetry and password-protected user interface for security. Louvers at front and top of cabinet allow venting.

**LSN** LIFE SAFETY NETWORK



Catalog Number	
Comments	Type

### ORDERING GUIDE

D		-		-		-		-	
Model	Capacity	Battery Type	Output Circuit Breaker Type	Output Circuit Breaker Ampere Rating <sup>7</sup>	Output Circuit Breaker Voltage Rating	Output Circuit Breaker Supervision	Output Circuit Breaker Quantity <sup>6</sup>	Output Voltage <sup>2,3,4</sup> (VAC)	Input Voltage (VAC) <sup>2</sup>
D LSN Central Lighting Inverter	01	1.0KVA	S 10-year VRLA Lead-Calcium	Blank	Normally On	Blank	Monitored	120	120
	02	2.0KVA							
Input Voltage (VAC) <sup>2</sup>	27	2.7KVA	G 20-year VRLA Lead-Calcium	N	Normally Off	U Unmonitored	01 to 20	120/208	208
	37	3.7KVA							
	48	4.8KVA	N 25-year Nickel Cadmium	Blank	Normally On	Blank	120/240 <sup>5</sup>	240	
	55	5.5KVA							
	66	6.6KVA	N 25-year Nickel Cadmium	Blank	Normally On	Blank	120/277	277	
	83	8.3KVA							
	10	10.0KVA	N 25-year Nickel Cadmium	Blank	Normally On	Blank	347	208VAC	
	12	12.5KVA							
	15	15.0KVA	N 25-year Nickel Cadmium	Blank	Normally On	Blank	347	240VAC	
	17	17.5KVA							
347								208VAC	

#### Other Options & Accessories

Options	Accessories
<b>EML</b> Email Device	<b>DSFK</b> Seismic Kit <sup>12</sup>
<b>RSP</b> Remote Status Panel	<b>Service Options</b>
<b>SMT</b> System Monitoring Terminal including Emergency Power Off Terminal	<b>FSL</b> Factory Start-Up <sup>13</sup>
<b>AR</b> Alternate Runtime <sup>8</sup>	
<b>SLM</b> Slim Battery Cabinet	
<b>IBS</b> Internal Maintenance Bypass Switch (Make Before Break)	
<b>C10</b> 10 Amp Charger Upgrade <sup>10</sup>	
<b>C20</b> 20 Amp Charger Upgrade <sup>11</sup>	
<b>CL60</b> Cabinet Locks	
<b>S</b> Seismic Qualified <sup>12</sup>	

- Requires a provided external transformer for 208VAC or 240VAC input.
- Refer to Specifications table for available Input/Output voltage combinations.
- Other voltages available. Consult factory.
- External transformer may be provided.
- Loading may not exceed 50% of the system's total rating on any 120VAC leg.
- Normally On circuit breakers: a maximum of 14 monitored, single pole positions or 20 unmonitored, single pole positions may be specified. Normally Off circuit breakers: a maximum of 8 single pole positions (monitored or unmonitored) may be specified.
- Normally Off circuit breakers: a maximum rating of 20 amps.
- Specify runtime in minutes when ordering. Example: AR120.
- Available with 1.0, 2.0, 2.7, 3.7, 5.5, and 6.6KVA Series with S batteries only.
- Available on 1.0 KVA - 4.8KVA Series.
- Available on 5.5 KVA - 17.5KVA Series. Not available with 120V input on 6.6KVA and above. Not available with 208V input on 12.5 KVA and above. Not available with 240V input on 15.0 KVA and above.
- Type S Battery in standard height cabinet only; See system configuration for 90-minute run time.
- Start-Up is non-cancellable / non-returnable and must be performed by an Authorized Service Center within 6 months of battery shipment to increase the inverter warranty to 2 years. Order a quantity of 1 per system. Systems powered up by others are done so at their own risk.

UUT<sub>x</sub>-1

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor and wall mount with 4 - 1/2" diameter grade 5 anchor bolts to the floor and 4 - 1/2" diameter grade 5 anchor bolts to the wall.



<b>Manufacturer:</b> Current Lighting	<b>Test Location:</b> Clark Testing Laboratory
<b>Product Line:</b> LSN Lighting Inverters	<b>Test Date:</b> Aug 12-15, 2013
	<b>Test Report:</b> 1269-03
<b>Identification Number:</b> D-120-01-S-120-A-15-01-EML-RSP-SMT-IBS-C10-AR15-S	
<b>UUT Function:</b> Emergency power source with automatic transferring for lighting applications	
<b>UUT Description:</b> 1kVA 15 minute run time LSN Inverter with a NEMA1 steel enclosure.	
<b>UUT Component Description:</b> NEMA1 carbon steel enclosure, Filter Concepts EMI/RFI Filter (0390389), Transformer Technology Transformers (0230858 / 0230902), and C&D Technologies Batteries (93012367).	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
840	30.0	18.6	92.0	NA	NA	NA

**SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24**

	S <sub>DS</sub> (g)	z / h	H <sub>f</sub>	R <sub>μ</sub>	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	-	-
	2.50	0.0	1.0	1.00	1.5	-	-	1.68	0.68

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT<sub>x</sub>-2

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor and wall mount with 4 - 1/2" diameter grade 5 anchor bolts to the floor and 4 - 1/2" diameter grade 5 anchor bolts to the wall.



<b>Manufacturer:</b> Current Lighting	<b>Test Location:</b> Clark Testing Laboratory
<b>Product Line:</b> LSN Lighting Inverters	<b>Test Date:</b> Aug 12-15, 2013
	<b>Test Report:</b> 1269-03
<b>Identification Number:</b> D-277-17-S-120-A-80-01-EML-RSP-SMT-IBS-C20-S (control + batt cabinet)	
<b>UUT Function:</b> Emergency power source with automatic transferring for lighting applications	
<b>UUT Description:</b> 17kVA 90 minute run time LSN Inverter with a NEMA1 steel enclosure.	
<b>UUT Component Description:</b> NEMA1 carbon steel enclosure, Filter Concepts EMI/RFI Filter (0390396), Transformer Technology Transformers (0230984 / 0230876), and C&D Technologies Batteries (93012371).	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,766	30.0	18.6	92.0	NA	NA	NA

**SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24**

	S <sub>DS</sub> (g)	z / h	H <sub>f</sub>	R <sub>μ</sub>	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	-	-
	2.50	0.0	1.0	1.00	1.5	-	-	1.68	0.68

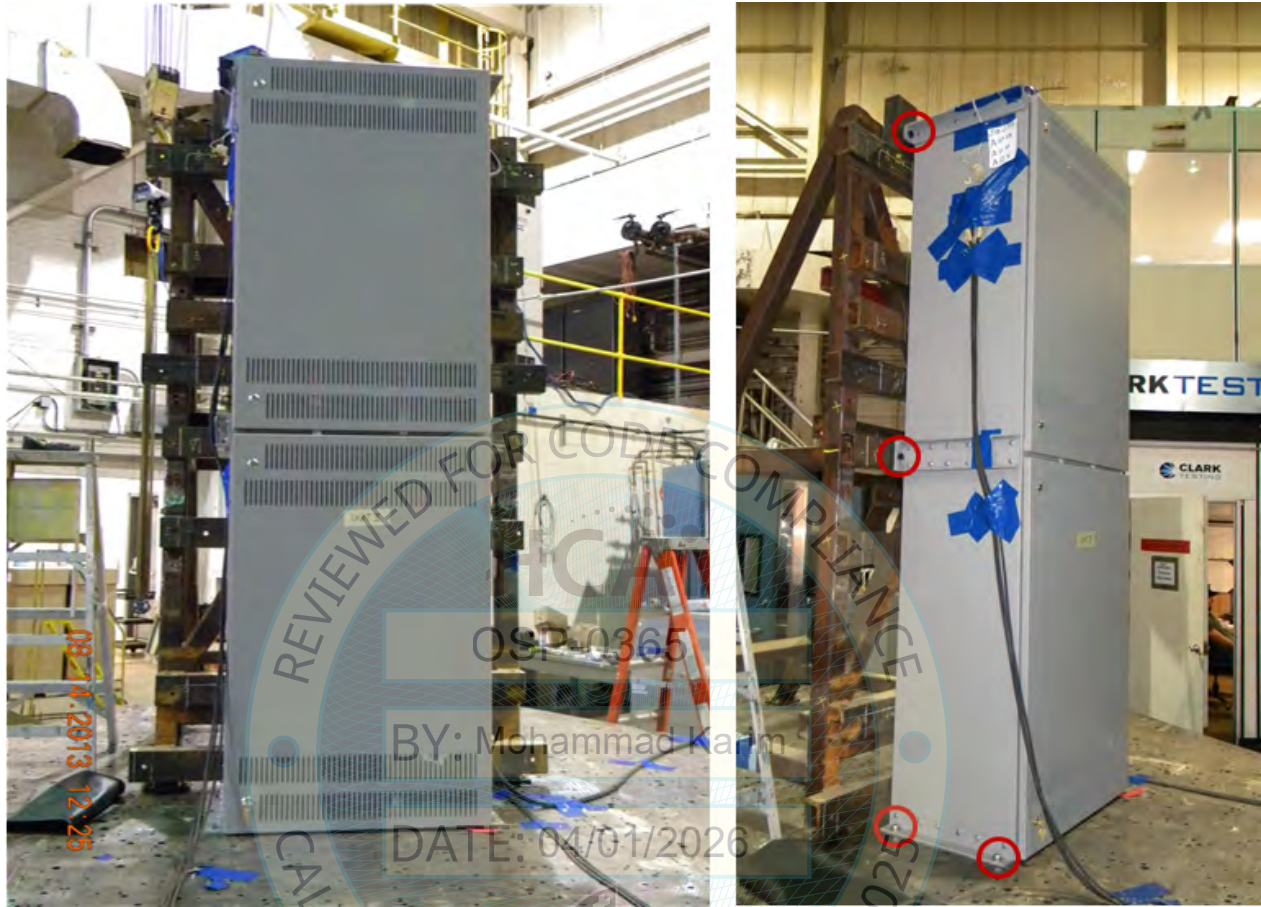
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT<sub>x</sub>-3

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor and wall mount with 4 - 1/2" diameter grade 5 anchor bolts to the floor and 4 - 1/2" diameter grade 5 anchor bolts to the wall.



<b>Manufacturer:</b> Current Lighting	<b>Test Location:</b> Clark Testing Laboratory
<b>Product Line:</b> LSN Lighting Inverters	<b>Test Date:</b> Aug 12-15, 2013
	<b>Test Report:</b> 1269-03
<b>Identification Number:</b> D-277-17-S-120-A-80-01-EML-RSP-SMT-IBS-C20-S (batt cabinets)	
<b>UUT Function:</b> Emergency power source with automatic transferring for lighting applications	
<b>UUT Description:</b> 17kVA 90 minute run time LSN Inverter with a NEMA1 steel enclosure.	
<b>UUT Component Description:</b> NEMA1 carbon steel enclosure and C&D Technologies Batteries (93012371).	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
2,250	30.0	18.6	92.0	NA	NA	NA

**SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24**

	S <sub>DS</sub> (g)	z / h	H <sub>f</sub>	R <sub>μ</sub>	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	-	-
	2.50	0.0	1.0	1.00	1.5	-	-	1.68	0.68

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT<sub>x</sub>-4

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor mount with 4 - 5/16" diameter grade 8 anchor bolts.



REVIEWED FOR CODE COMPLIANCE  
BY: Mohammad Karim  
DATE: 04/01/2026

<b>Manufacturer:</b> Sola Hevi-Duty	<b>Test Location:</b> Clark Testing Laboratory
<b>Product Line:</b> LSN Lighting Inverters	<b>Test Date:</b> Aug 12-15, 2013
Individual Component of the LSN Product Line	<b>Test Report:</b> 1269-03
<b>Identification Number:</b> S12H15S	
<b>UUT Function:</b> Conversion Transformer	
<b>UUT Description:</b> External Conversion Transformer.	
<b>UUT Component Description:</b> NEMA1 carbon steel enclosure with dry type core and coil made of copper windings	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
208	16.0	16.0	28.0	21.2	30.7	> 33

**SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24**

	S <sub>DS</sub> (g)	z / h	H <sub>f</sub>	R <sub>μ</sub>	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	-	-
	2.50	0.0	1.0	1.00	1.5	-	-	1.68	0.68

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT<sub>y</sub>-1

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor and wall mount with 6 - 1/2" diameter grade 5 anchor bolts to the floor and 4 - 1/2" diameter grade 5 anchor bolts to the wall.



<b>Manufacturer:</b> Current Lighting	<b>Test Location:</b> Environmental Testing Laboratory
<b>Product Line:</b> LSN Lighting Inverters	<b>Test Date:</b> Sept 5, 2025
	<b>Test Report:</b> 17771-Rev2
<b>Identification Number:</b> D-120-66S120-A2014-SMT-IBS-S (control + batt cabinet)	
<b>UUT Function:</b> Emergency power source with automatic transferring for lighting applications	
<b>UUT Description:</b> 6.6kVA 90 minute run time LSN Inverter with a NEMA1 steel enclosure.	
<b>UUT Component Description:</b> NEMA1 carbon steel enclosure, Filter Concepts EMI/RFI Filter (0390390), Transformer Technology Transformers (0230863), and CBS Batteries (93012370).	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,103	30.0	18.6	92.0	NA	NA	NA

**SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24**

	S <sub>DS</sub> (g)	z / h	H <sub>f</sub>	R <sub>μ</sub>	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	-	-
	2.50	0.0	1.0	1.00	1.5	-	-	1.68	0.68

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT<sub>y</sub>-2

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor and wall mount with 6 - 1/2" diameter grade 5 anchor bolts to the floor and 4 - 1/2" diameter grade 5 anchor bolts to the wall.



<b>Manufacturer:</b> Current Lighting	<b>Test Location:</b> Environmental Testing Laboratory
<b>Product Line:</b> LSN Lighting Inverters	<b>Test Date:</b> Sept 5, 2025
	<b>Test Report:</b> 17771-Rev2
<b>Identification Number:</b> D-120-66S120-A2014-SMT-IBS-S (skinny batt cabinet)	
<b>UUT Function:</b> Emergency power source with automatic transferring for lighting applications	
<b>UUT Description:</b> 6.6kVA 90 minute run time LSN Inverter with a NEMA1 steel enclosure.	
<b>UUT Component Description:</b> NEMA1 carbon steel enclosure and CBS Batteries (93012370).	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
730	15.0	18.6	92.0	NA	NA	NA

**SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24**

	S <sub>DS</sub> (g)	z / h	H <sub>f</sub>	R <sub>μ</sub>	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	-	-
	2.50	0.0	1.0	1.00	1.5	-	-	1.68	0.68

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.