



**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-0832**

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

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: G02Power, LLC

Manufacturer's Technical Representative: Guy Teipel

Mailing Address: 2575 Metropolitan Drive, Trevese, PA 19053

Telephone: (800) 967-5573 Email: gteipel@go2power.com

**Product Information**

Product Name: Pure Wave II, Liteminder, Liteminder Optimus

Product Model Number(s): Varies, see product table

Product Category: UPS and Batteries

Product Sub-Category: Lighting Inverter Systems

General Description: Lighting Inverter System

Mounting Description: Base/Wall 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: Katie Braman

Mailing Address: 36 SW Wall St, Bend, OR 97702

Telephone: (541) 241-2310 Email: katie@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)**

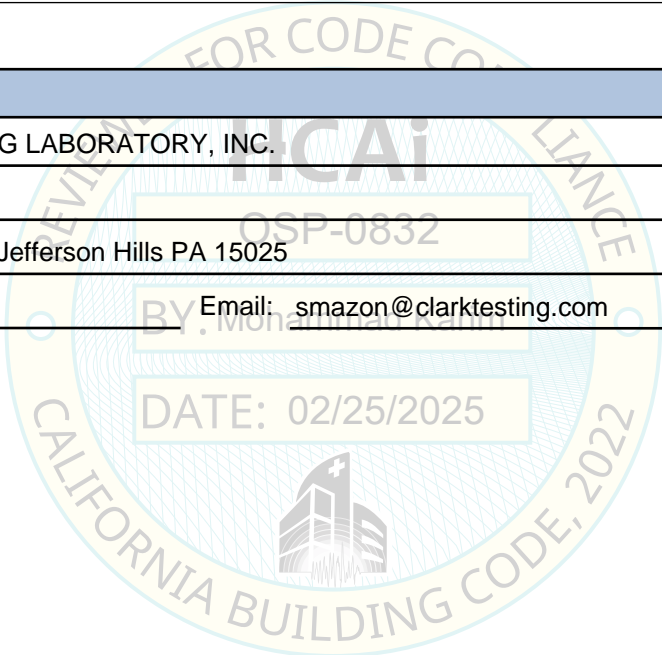
Company Name: PRE COMPLIANCE  
Name: Andrew Coughlin California License Number: S6082  
Mailing Address: 36 SW Wall Street, Bend, OR 97702  
Telephone: (415) 635-8461 Email: Andy@go-pre.com

**Certification Method**

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

**Testing Laboratory**

Company Name: CLARK TESTING LABORATORY, INC.  
Contact Person: Suzanne Mazon  
Mailing Address: 1801 Route 51, Jefferson Hills PA 15025  
Telephone: (412) 387-1001 Email: smazon@clarktesting.com



*"A healthier California where all receive equitable, affordable, and quality health care"*



**STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY**



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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.44 at z/h =1.0, 0.90 at z/h =0

SDS (Design spectral response acceleration at short period, g) = 2.0 at z/h=1.0, 2.00 at z/h =0

$a_p$  (Amplification factor) = 1.0

$R_p$  (Response modification factor) = 2.5

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

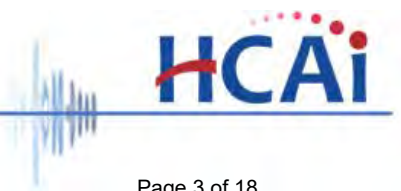
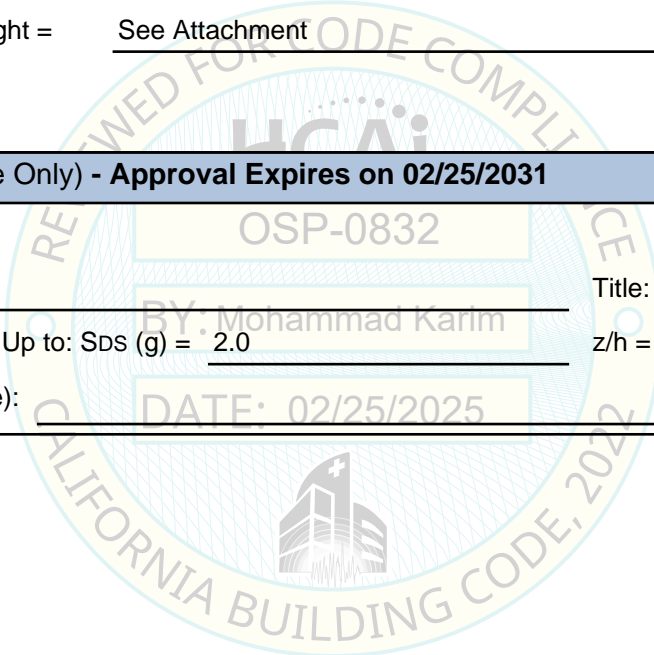
**HCAI Approval (For Office Use Only) - Approval Expires on 02/25/2031**

Date: 2/25/2025

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.0 z/h = 1

Condition of Approval (if applicable): DATE: 02/25/2025









**Manufacturer:** Go2Power  
**Product Type:** Lighting Inverter Systems  
**Model Line:** Liteminder Optimus

**Seismic Parameters**

$S_{DS} = 2.0g$  for  $z/h=1$        $I_p = 1.5$   
 $S_{DS} = 2.0g$  for  $z/h=0$

**Building Codes**

**CBC 2022**

## TABLE 4

### Liteminder Optimus Subcomponents

Component (Manufacturer)	Model	Description	Notes	UUT
Main Transformer (Yi-Huang)	WK-352E1-120227-D2	3.5 kVA, H9-0.35t, 69 lbs.		Interp.
	WK-073E1-120277-D2	7 kVA, H9-0.35t, 99 lbs.		Interp.
	WK-113E1-120277-D2	11 kVA, H9-0.35t, 169 lbs.		7
	WK-173E1-120277-D2	17 kVA, H9-0.35t, 300 lbs.		6
Transformer (Hui - Hui)	T110022	Multi-Winding		6,7
Transformer (Hui - Hui)	T110038	Step Down/Auto - 277/120		7
Transformer (Galaxy)	T110021	Current Sense		6,7
Power Distribution Block (Erico)	UDJ-160A	8 Position Terminal Block 160Amp		6,7
PCBA (Weico)	A250121	Single phase A/C transfer board		6
	A250131	Multi phase A/C transfer board		7
	A250133	DC Sense board		6,7
PCBA (SMT)	A250139	Inverter board, single/Multi phase		6,7
	A250190	Options Board		6,7
	A250193	Battery Thermal Manager board		6,7
PCBA (Telan)	A250118	Front Panel Screen		6,7
	A250120-3	Multi Phase		7
	A250179-3	Single Phase		6
	A250227	IGBT Driver Board		7
PCBA (Shore)	A250141	IGBT Driver Board		6
DP Contractor (Lovato)	DPBF8000A12060	3 Pole, 120VAC Coil		6
	BF15000230	3 Pole, 120VAC Coil		7
Capacitor (CDE)	SFC37T30K291B-F	Film, 370 VAC		6,7
Capacitor (CDE)	DCMC602T350DC2H	Electrolytic		6,7
Capacitor (CDE)	SCD205K601A3Z25-F	Film		6,7
Relay (OMRON)	G9EA-1-B-DC-12	DC, 60A		7
	G9EA-1-B-CA DC-12	DC, 30A		6
Heat Sink (Weico)	M990020	Heatsink Bonded Fin		6,7
Heat Sink (D6)	M990026	Heatsink, 6" Extrusion Custom Milled		6,7
SCR (Powerex)	CD431690C	90A		6







## UUT 1

Test Report# JID 23-00483-R Rev.1

**Manufacturer:** Go2Power  
**Model Line:** Pure Wave II  
**Model Number:** PWII12  
**Serial Number:** 24267-6089

Highest Passed Test Level						
S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.0	1 0	1.5	3.2	2.4	1.34	0.54

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
4.3	15.5	12.0	32.9

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon Steel Enclosure

### UUT Mounting Details:



The unit was mounted to the wall fixture using four (4) 1/4"-20 grade 5 bolts with washers and lock washers torqued to 95in.-lbs.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

### List of Included Subcomponents

Description	Model Number
Printed Circuit Board Assembly	A250160
Main Transformer	T110051
Audible Alarm	CEP-2242
Battery	LPL12-14-T2

## UUT 2

Test Report# JID 23-00483-R Rev.1

**Manufacturer:** Go2Power  
**Model Line:** Pure Wave II  
**Model Number:** PWII25  
**Serial Number:** 24267-6090

Highest Passed Test Level						
S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.0	1 0	1.5	3.2	2.4	1.34	0.54

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
4.3	15.5	17.3	61

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon Steel Enclosure

### UUT Mounting Details:



The unit was mounted to the wall fixture using six (6) 1/4"-20 grade 5 bolts with washers and lock washers torqued to 95in.-lbs.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

### List of Included Subcomponents

Description	Model Number
Printed Circuit Board Assembly	A250160
Main Transformer	T110052
Audible Alarm	CEP-2242
Battery	LPL12-14-T2

## UUT 3

Test Report# JID 23-00483-R Rev.1

**Manufacturer:** Go2Power  
**Model Line:** Pure Wave II  
**Model Number:** PWII37  
**Serial Number:** N/A

Highest Passed Test Level						
S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.0	1 0	1.5	3.2	2.4	1.34	0.54

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
7.0	20.0	20.0	101.5

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon Steel Enclosure

### UUT Mounting Details:



The unit was mounted to the wall fixture using four (4) 1/4"-20 grade 5 bolts with washers and lock washers torqued to 95in.-lbs.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

### List of Included Subcomponents

Description	Model Number
Printed Circuit Board Assembly	A250158
Main Transformer	T110063
Audible Alarm	CEP-2242
Battery	LPL12-38-T6

## UUT 4

Test Report# JID 23-00483-R Rev.1

**Manufacturer:** Go2Power  
**Model Line:** Pure Wave II  
**Model Number:** PWII55  
**Serial Number:** 24267-6092

Highest Passed Test Level						
S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.0	1 0	1.5	3.2	2.4	1.34	0.54

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
7.0	20.0	20.0	126.3

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon Steel Enclosure

### UUT Mounting Details:



The unit was mounted to the wall fixture using four (4) 1/4"-20 grade 5 bolts with washers and lock washers torqued to 95in.-lbs.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

### List of Included Subcomponents

Description	Model Number
Printed Circuit Board Assembly	A250158
Main Transformer	T110063
Audible Alarm	CEP-2242
Battery	LPL12-55-T6

## UUT 5

Test Report# JID 23-00483-R Rev.1

**Manufacturer:** Go2Power  
**Model Line:** Liteminder  
**Model Number:** LMi-1200  
**Serial Number:** N/A

Highest Passed Test Level						
S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.0	1 0	1.5	3.2	2.4	1.34	0.54

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8.0	20.9	22.0	122.7

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon Steel Enclosure

### UUT Mounting Details:



The unit was mounted to the wall fixture using four (4) 1/4"-20 grade 5 bolts with washers and lock washers torqued to 95in.-lbs.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

### List of Included Subcomponents

Description	Model Number
Battery	B250025
PCB Assembly	A250230, A250231, A250232, A250233, A250234, A250235, A250236
Main Transformer	T110067
Breaker	SU201M-K30
Breaker	SU201M-K20

## UUT 6

Test Report# JID 23-00483-R Rev.1

**Manufacturer:** Go2Power  
**Model Line:** Liteminder Optimus  
**Model Number:** LMOPT-17000-1P  
**Serial Number:** 24267-1978

Highest Passed Test Level						
S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.0	1 0	1.5	3.2	2.4	1.34	0.54

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
25.4	53.5	77.0	3,157

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
9.29	13.6	14.16

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon Steel Enclosure

UUT Mounting Details:	List of Included Subcomponents
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The unit was base mounted to the shake table using twenty-four (24) 3/8"-16 SAE grade 5 bolts with washers and lock washers torqued to 30ft.-lbs. See the next page for mounting hole locations.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

Description	Model #
Main Transformer	T110061
Transformer	T110022, T110021
Power Distriution Block	UDJ-160A
SCR	CD431690C
PCBA	A250121, A250133, A250139, A250190, A250193, A250118, A250179-3, A250141
DP Contractor	DPBF8000A12060
Capacitor	SFC37T30K291B-F, DCMC602T350DC2H, SCD205K601A3Z25-F
Relay	G9EA-1-B-CA DC-12
Heat Sink	M990020, M990026
Fuse Block	LFJ60100-1C1D
Maintenance Bypass Switch	7GN125U183U04
Terminal Block	1SNK516010R0000, WDU-10, WDU-16
Battery	LPF12-100A
Battery	TPL121000FR





## UUT 7

Test Report# JID 23-00483-R Rev.1

**Manufacturer:** Go2Power  
**Model Line:** Liteminder Optimus  
**Model Number:** LMOPT-33000-3P  
**Serial Number:** 24267-1977

Highest Passed Test Level						
S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.0	1 0	1.5	3.2	2.4	1.34	0.54

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
25	80	77	6,568

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
9.26	13.06	19.75

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon Steel Enclosure

UUT Mounting Details:	List of Included Subcomponents
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The unit was base mounted to the shake table using thirty-four (34) 3/8"-16 SAE grade 5 bolts with washers and lock washers torqued to 30ft.-lbs.

See the next page for mounting hole locations.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

Description	Model #
Main Transformer	T110062
Transformer	T110022, T110021, T110038
Power Distriution Block	UDJ-160A
SCR	TT190N16SOF
PCBA	A250131, A250133, A250139, A250190, A250193, A250118, A250120-3, A250227
DP Contractor	BF15000230
Capacitor	SFC37T30K291B-F, DCMC602T350DC2H, SCD205K601A3Z25-F
Relay	G9EA-1-B-DC-12
Heat Sink	M990020, M990026
Fuse Block	F60A1B, LFJ60100-1C1D
Maintenance Bypass Switch	C125 US20020-600 E
Terminal Block	1SNK516010R0000, WDU-10, WDU-16
Battery	TPL121600FR

