

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

| APPLICATION FOR HCAI SPECIAL SEISMIC | OFFICE USE ONLY |
|--|---|
| CERTIFICATION PREAPPROVAL (OSP) | APPLICATION #: OSP-0498 |
| HCAI Special Seismic Certification Preapproval (OSP) | |
| Type: New X Renewal | |
| Manufacturer Information | |
| Manufacturer: Kohler Power Systems | |
| Manufacturer's Technical Representative: Brady Eifrid | |
| Mailing Address: N 7650 Lakeshore Road, Sheboygan, WI 53083 | |
| Telephone: (920) 457-4441 Email: brady.eifrid@ko | hler.com |
| FORCODECO | |
| Product Information | Mp, |
| Product Name: UPS and Batteries | 1 the |
| Product Type: Battery Chargers | 2 |
| Product Model Number: GM87448 | |
| General Description: Units are Single Phase 90-265VAC Input Battery C | Chargers with an Output of 12/24VDC and 10 A |
| Mounting Description: Unit mounted with and without supports, rigid wall with supports, flexible floor mounted with supports | mounted, flexible wall mounted, rigid floor mounted |
| Tested Seismic Enhancements: None | 271 |
| | |
| Applicant Information | - HAN |
| Applicant Company Name: The VMC Group | O |
| Contact Person: John Giuliano | |
| Mailing Address: 113 Main Street, Bloomingdale, NJ 07403 | |
| Telephone: (973) 838-1780 Email: john.giuliano@tl | hevmcgroup.com |
| Title: President | |

OSP-0498

HCA



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

| California Licensed Structural Engineer Respo | onsible 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, Sacramer | nto, CA 95814 |
| Telephone: (832) 627-2214 Em | ail: ken.tarlow@thevmcgroup.com |
| | |
| Certification Method | |
| GR-63-Core X ICC-ES AC156 | ☐ IEEE 344 |
| Other (Please Specify): | |
| | RCODECO |
| Testing Laboratory | Mp |
| Company Name: DYNAMIC CERTIFICATION LABOR | ATORY (DCL) |
| Contact Person: Kelly Laplace | 2000 0100 |
| Mailing Address: 1315 Greg St., Ste 109, Sparks NV a | 39431 m |
| Telephone: (775) 358-5085 | ail: Kelly@shaketest.com |
| | |
| DAT | E: 02/24/2022 |
| DAT | |
| | |
| RVIA | |
| - AN | BUILDING |

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

| Design Basis of Equipment or Components | s (Fp/Wp) = 1.50 @ SDS = 2.0g ; 1. | 13 @ SDS | = 2.5g |
|--|--|--------------|-------------------------------|
| SDS (Design spectral response accel | eration at short period, g) = $2.0 @ z/$ | h = 1.0; 2.5 | @ z/h = 0.0 |
| ap (Amplification factor) = | 2.5 | | |
| Rp (Response modification factor) = | 6.0 | | |
| Ω_0 (System overstrength factor) = | 2.0 | | |
| Ip (Importance factor) = | 1.5 | | |
| z/h (Height ratio factor) = | 1 | | |
| Natural frequencies (Hz) = | See Attachment | | |
| Overall dimensions and weight = | See Attachment | | |
| HCAI Approval (For Office Use Only) - | OSP-0498 | <u> </u> | |
| Date: 2/24/2022 | 03F-0490 | m | |
| Name: Mohammad Karim | BY: Mohammad Karim | Title: | Supervisor, Health Facilities |
| Special Seismic Certification Valid Up to: S | DS (g) = See Above | z/h = | |
| Condition of Approval (if applicable): | DATE: 02/24/2022 | 0 | |
| | ORNIA BUILDING COS | 102 | |

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

HCA

| Model | Input | Output | Output Current | Outer | Dimensior | is [in] | Weight | Attachment | Mounting | UUT |
|-----------|-------------|----------------|-----------------------|---------------------|-----------|-----------|----------|------------|---------------|-------------------------|
| woder | Voltage [V | Voltage [V DC | [amp] | Height | Width | Depth | [lb] | Scenario | Configuration | 001 |
| | | | | | | | | Case 1 | Rigid | UUT-01A-R, UUT-01B-R |
| | | | | | | | | Case I | Isolated | UUT-01A-F, UUT-01B-F |
| | | | | OP C | | | | Case 2 | Rigid | UUT-02A-R, UUT-02B-R |
| | | | Qu | FORC | | OMS | | Case 2 | Isolated | UUT-02A-F, UUT-02B-F |
| GM87448 | 90-265 | 12 or 24 | REISE | 2.8 | 10.0 | 6.0 | 8.0 | Case 3 | Rigid | UUT-03A-R, UUT-03B-R |
| Givi07440 | 90-205 | 12 01 24 | REL | | P-0498 | 0.0 | 0.0 C | Case 5 | Isolated | UUT-03A-F, UUT-03B-F |
| | | | | | | | | Case 4 | Rigid | UUT-04-R |
| | | | B | ^{••} Mohai | nmad Ka | arim | | Case 4 | Isolated | UUT-04-F |
| | | | | | | | | Case 5 | Rigid | UUT-05-R |
| | | | | | | | | Case 5 | Isolated | UUT-05-F |
| | | | E Di | AIE: 0 | 2/24/20 | 22 | 019 | Case 6 | Rigid | UUT-06A-R UUT-06B-R |
| | | | | | | | Ň | Case o | Isolated | UUT-06A-F, UUT-06B-F |

Table 1 - Certified Product Matrix

Case 1: battery charger wall mounted to junction box

Case 2: battery charger and GM103340 support bracket wall mounted to junction box

Case 3: battery charger and GM78810 support bracket wall mounted to junction box

Case 4: battery charger and GM94448 support bracket wall mounted to junction box

Case 5: battery charger and GM95027 bracket base mounted to skid

Case 6: battery charger and GM95037 bracket base mounted to skid



UUT-1A-R

Test Report: VMA-50682-01E Model Line **Model Number** Manufacturer **Battery Charger** GM87448 Kohler **Product Construction Summary** Plastic housing **Options / Subcomponent Summary** AC Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS DC Output: 10 Amps, 12/24 VDC **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Length Width Height F-B S-S V 10.0 8 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information **Building Code** Test Criteria SDS z/h $\mathbf{A}_{\mathsf{RIG-H}}$ $\mathbf{A}_{\mathsf{RIG-V}}$ I_P A_{FLX-H} A_{FLX-V} 2.00 1.0 1.5 3.20 2.40 CBC 2019 ICC-ES AC156 2.50 0.0 1.5 1.68 0.68 _ _ Test Mounting Details UUT-1A-R was wall mounted to the junction box using (4) M6 8.8 bolts. The junction box was rigidly attached to the shake table using (8) M6 8.8 bolts. UUT-01A-R



UUT-1A-F

Summary Sheet

| Model Line |) | M | odel Numb | er | | | Manufacture | er |
|---|-------------------------|----------------------|----------------------|----------------|--------------------|--------------------|--------------------|------------------|
| Battery Charg | jer | | GM87448 | | | | Kohler | |
| | I | Product Co | onstruction | Summary | | | | |
| astic housing | | | | | | | | |
| | | | | | | | | |
| | | Options / Su | bcompone | nt Summar | У | | | |
| Input: 100-260VAC Output: 10 Amps, 1 | , 50/60 Hz, 3.7 Amps RN | IS | | | | | | |
| Output. To Amps, T | 2/24 VDC | | | | | | | |
| | | OR | CODF | Ca | | | | |
| | | O FOIL | IT Deserved | -OA | | | | |
| | , pr | Dimensio | JT Propertion | es | | Lowe | st Nat. Freq | [H7] |
| Weight [lbs] | Length | Wic | | He | ight | F-B | S-S | · [112] |
| 8 | 10.0 | | 0P_040 | | 2.8 | N/A | N/A | N/A |
| | | lighest Pass | | | | | | ,, . |
| Building Code | Test Criteria | SVS _{DS/Ob} | am ^{z/h} ad | Kar h m | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG} |
| CBC 2019 | ICC-ES AC156 | 2.00 | 1.0 | 1.5 | 3 <mark>.20</mark> | 2.40 | - | - |
| 000 2013 | 100-E0 A0150 | 2.50 | 0.0 | 1.5 | - | - | 1.68 | 0.68 |
| | | Test I | Mounting D | etails | | | | |
| | | | | 6 B | | | | |



UUT-1B-R

Summary Sheet

Test Report: VMA-50682-01E Model Number Model Line Manufacturer **Battery Charger** GM87448 Kohler **Product Construction Summary** Plastic housing **Options / Subcomponent Summary** AC Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS DC Output: 10 Amps, 12/24 VDC **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Length Width Height F-B S-S V 10.0 8 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information **Building Code** Test Criteria SDS z/h $\mathbf{A}_{\mathsf{RIG-H}}$ $\mathbf{A}_{\mathsf{RIG-V}}$ I_P A_{FLX-H} A_{FLX-V} 2.00 1.0 1.5 3.20 2.40 CBC 2019 ICC-ES AC156 2.50 0.0 1.5 1.68 0.68 _ _ Test Mounting Details UUT-1B-R was wall mounted to the junction box using (4) M6 8.8 bolts. The junction box was rigidly attached to the shake table using (8) M6 8.8 bolts. UUT-01B-R



UUT-1B-F

Summary Sheet

| Model Line | | М | odel Numb | er | | | Manufacture | er |
|--|---|----------------------------------|--------------------------------|-------------|--------------------|--------------------|--------------------|--------------------|
| Battery Charg | er | | GM87448 | | | | Kohler | |
| | | Product C | onstruction | Summary | | | | |
| lastic housing | | Troduct O | onstruction | louinnary | | | | |
| | | | | | | | | |
| | | Options / Su | Ibcompone | nt Summar | у | | | |
| | 50/60 Hz, 3.7 Amps RM | | | | - | | | |
| C Output: 10 Amps, 12 | 2/24 VDC | | | | | | | |
| | | - 0 | CODE | | | | | |
| | | FOR | | CON | | | | |
| | | U | JT Properti | es | | | | |
| Weight | | Dimensio | ons [in] | | 4 | Lowe | st Nat. Freq | . [Hz] |
| [lbs] | Length | Wie | dth | He | ight | F-B | S-S | v |
| 8 | 10. <mark>0</mark> | | 9P-049 | | 2.8 | N/A | N/A | N/A |
| | | Highest Pass | sed Seismic | c Run Infor | mation | | | |
| Building Code | Test Criteria | BVS _{psloh} | am z/h ad | Karlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2019 | ICC-ESAC156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | - | - |
| | | 2.50 | 02/24/2 | 1.5 | <u> </u> | - | 1.68 | 0.68 |
| | | | Mounting D | | | | | |
| JUT-1B-F was wall mou 990N spring isolators a | unted to the junction box and attached to the shak | c using (4) M6 ce table usinc | 5 8.8 bolts. 1 1 (8) M6 8.8 | he system | was external | ly isolated u | sing (4) VM | C MSSH-1 |
| | | | , (0) | bollo: | 4 | | | |
| | | A 135 | The second second | | | | | |
| | | LA BY | ITTOIN | G | | | | |
| | | | - | EK | 1 | | | |
| | | | | | -19 | 15 | | |
| | A A | | X. | | | 9 | | |
| | | 1.0 | | | Press of | | | |
| | | | | | | Sec. | | |
| 1 | | | | dit. | | Ů | UT-01B-F | |
| | | | | | ALC: NO | | | - |
| | | | - V- | | | | | |
| | | There are a | - 1 | | | | | |
| | | | | A.) A | | 1 | | |
| | | | | A A | | | | |
| | | and the second second | | 1984 | - All | | - | |
| | | THEFT | | | | Ar | | |
| and set | - Western State | | And Hard | | Com Long | | | |

All units were filled with contents and maintained structural integrity and functionality after AC-156 test.

[13]年3



UUT-2A-R

Summary Sheet

| | | | | | | Test F | Report: VMA | -50682-01 |
|---|-----------------------------|----------------------|-----------------------|----------------|--------------------|--------------------|--------------------|--------------------|
| Model Line | | Μ | lodel Numb | er | | Ν | Manufacture | ÷r |
| Battery Charg | er | | GM87448 | | | | Kohler | |
| | | Product C | onstructior | Summary | | | | |
| Plastic housing | | | | | | | | |
| | | | | | | | | |
| AC Innut 100 200\/AC | | Options / Su | ubcompone | nt Summai | ry | | | |
| AC Input: 100-260VAC, DC Output: 10 Amps, 12 | | //5 | | | | | | |
| | | | | | | | | |
| | | EOR | CODE | Con | | | | |
| | .< | | UT Properti | es | 0. | | | |
| Weight | ,S' | | ons [in] | | | Lowe | st Nat. Freq | . [Hz] |
| [lbs] | Length | Wi | dth | He | ight | F-B | S-S | v |
| 8 | 10.0 | 6 | 9P-049 | 8 2 | 2.8 | N/A | N/A | N/A |
| | UUT | Highest Pas | sed Seismi | c Run Infor | mation | | | |
| Building Code | Test <mark>Criter</mark> ia | BVS _{DS/OF} | an ^{z/h} ad | Karlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2019 | ICC-ES AC156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | - | - |
| | | 2.50 | 0.0 | 1.5 | - | - | 1.68 | 0.68 |
| UUT-2A-R was attached | | | Mounting D | | 102 | | | |
| bolts. The junction box v | | | | | | U | UT-2A-R | |
| All units | were filled with contents | and maintai | 10/11 ned structur | al integrity a | and functiona | lity after AC- | -156 test. | |



UUT-2A-F **Summary Sheet** Test Report: VMA-50682-01E Model Line Model Number Manufacturer **Battery Charger** GM87448 Kohler **Product Construction Summary** Plastic housing **Options / Subcomponent Summary** AC Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS DC Output: 10 Amps, 12/24 VDC **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Height Length F-B S-S V 10.0 8 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information **Building Code** Test Criteria z/h $\mathbf{A}_{\mathsf{RIG-V}}$ S_{DS/} I_P A_{FLX-H} A_{RIG-H} A_{FLX-V} 2.00 1.0 1.5 3.20 2.40 _ ICC-ES AC156 CBC 2019 2.50 0.0 1.5 1.68 0.68 _ _ Test Mounting Details UUT-2A-F was attached to support bracket GM103340 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using (8) M6 8.8 bolts. UT-02A



UUT-2B-R

Test Report: VMA-50682-01E Model Line Model Number Manufacturer **Battery Charger** GM87448 Kohler **Product Construction Summary** Plastic housing **Options / Subcomponent Summary** AC Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS DC Output: 10 Amps, 12/24 VDC **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Height Length F-B S-S V 10.0 8 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information **Building Code** Test Criteria z/h $\mathbf{A}_{\mathsf{RIG-V}}$ S_{DS} I_P A_{FLX-H} A_{RIG-H} A_{FLX-V} 2.00 1.0 1.5 3.20 2.40 _ CBC 2019 ICC-ES AC156 2.50 0.0 1.5 1.68 0.68 _ _ Test Mounting Details UUT-2B-R was attached to support bracket GM103340 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The junction box was rigidly attached to the shake table using (8) M6 8.8 bolts. UUT-2B-R All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UUT-2B-F

Summary Sheet

| VMC GROUP | | Jum | mary J | meel | | | | |
|---|-----------------------------------|--------------|------------------|-------------|--------------------|--------------------|--------------------|--------------------|
| | · | | | | | Test F | Report: VMA | -50682-01 |
| Model Line | | Ν | lodel Numb | er | | Ι | Manufacture | r |
| Battery Charg | er | | GM87448 | | | | Kohler | |
| | | Product C | onstructior | Summary | | | | |
| astic housing | | | | | | | | |
| | | Options / Su | ubcompone | ent Summar | у | | | |
| C Output: 10 Amps, 12 | 50/60 Hz, 3.7 Amps RM 2/24 VDC | FOR | CODE | 6 | | | | |
| | | V FU | UT Properti | es | | | | |
| Weight | L.S. | Dimensi | ons [in] | | 2 | Lowe | st Nat. Freq | . [Hz] |
| [lbs] | Length | Wi | dth | He | ight | F-B | S-S | v |
| 8 | 10.0 | | <u>9P-049</u> | | 2.8 | N/A | N/A | N/A |
| | | Highest Pas | sed Seismi | c Run Infor | mation | | | |
| Building Code | Test Criteria | BVSpslot | am z/h ad | Karlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2019 | ICC-ES AC156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | - | - |
| | | 2.50 | 0.0 | 1.5 | | - | 1.68 | 0.68 |
| | to support bracket GM | | Mounting D | | | | | |
| olts. The system was e l6 8.8 bolts. | externally isolated using | (4) VMC MS | SH-1E-2990 | go | -02B-F | ttached to th | e shake tabi | e using (8) |



UUT-3A-R

Test Report: VMA-50682-01E Model Line Model Number Manufacturer **Battery Charger** GM87448 Kohler **Product Construction Summary** Plastic housing **Options / Subcomponent Summary** AC Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS DC Output: 10 Amps, 12/24 VDC **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Height Length F-B S-S V 10.0 8 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information **Building Code** Test Criteria z/h $\mathbf{A}_{\mathsf{RIG-V}}$ S_{DS} I_P A_{FLX-H} A_{RIG-H} A_{FLX-V} 2.00 1.0 1.5 3.20 2.40 _ ICC-ES AC156 CBC 2019 2.50 0.0 1.5 1.68 0.68 _ _ Test Mounting Details UUT-3A-R was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The junction box was rigidly attached to the shake table using (8) M6 8.8 bolts. UUT-3A-R



UUT-3A-F

Summary Sheet

| Model Line | | Μ | lodel Numb | er | | ſ | lanufacture | ۶r |
|----------------------|--|----------------------|----------------------|-----------|--------------------|--------------------|--------------------|--------------------|
| Battery Charg | ler | | GM87448 | | | | Kohler | |
| | I | Product C | onstructior | Summary | | | | |
| Plastic housing | | | | - | | | | |
| | | Options / Sı | ubcompone | nt Summar | у | | | |
| C Output: 10 Amps, 1 | 50/60 Hz, 3.7 Amps RM 2/24 VDC | FOR | CODE | COA | | | | |
| | 14 | | UT Properti | es | | | | |
| Weight | | Dimensi | ons [in] | | 2 | Lowe | st Nat. Freq | . [Hz] |
| [lbs] | Length | Wi | dth | Не | ight | F-B | S-S | V |
| 8 | 10.0 | 6 | 9P-049 | 8 2 | 2.8 | N/A | N/A | N/A |
| | UUT I | Highest Pas | sed Seismi | Run Infor | mation | | | |
| Building Code | Test <mark>Criter</mark> ia | SVS _{ps/ob} | an ^{z/h} ad | Karlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2019 | ICC-ES AC156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | - | - |
| 000 2013 | 100-20 40130 | 2.50 | 0.0 | 1.5 | - | - | 1.68 | 0.68 |
| | | | Mounting D | | 127 | | | |
| | d to support bracket GM externally isolated using | (4) VMC MS | | | | | | |





UUT-3B-R

Test Report: VMA-50682-01E Model Line Model Number Manufacturer **Battery Charger** GM87448 Kohler **Product Construction Summary** Plastic housing **Options / Subcomponent Summary** AC Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS DC Output: 10 Amps, 12/24 VDC **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Height Length F-B S-S V 10.0 8 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information **Building Code** Test Criteria SDS z/h $\mathbf{A}_{\mathsf{RIG-V}}$ I_P A_{FLX-H} A_{RIG-H} A_{FLX-V} 2.00 1.0 1.5 3.20 2.40 _ ICC-ES AC156 CBC 2019 2.50 0.0 1.5 1.68 0.68 _ _ Test Mounting Details UUT-3B-R was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The junction box was rigidly attached to the shake table using (8) M6 8.8 bolts. UUT-3B-R All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UUT-3B-F

Summary Sheet

| UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h Ip AFLX-H ARIG-H AFLX-V ARIG CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - CBC 2019 ICC-ES AC156 2.50 0.0 1.5 - - 1.68 0.68 UUT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 olts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Product Construction Summary Iastic housing Options / Subcomponent Summary C Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS C Output: 10 Amps, 12/24 VDC UUT Properties UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Spain 2/h Ipp | | Kohler | | | | | | | |
|---|--|--------------------|--------------------|--------------------|--------------------|---------------|----------------------|----------------------|-----------------------------|-----------------------|
| Product Construction Summary Instruction Summary Instruction Summary Options / Subcomponent Summary C Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS C Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS COutput: 10 Amps, 12/24 VDC UUT Properties UUT Properties UUT Properties UUT Highest Passed Seismic Run Information Building Code Test Criteria Sost and value of the punction box with (4) M6 8.8 botts and wall mounted to the junction box with (4) M6 8.8 botts and wall mounted to the shake table using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using (bit for the sha | Product Construction Summary Instantion Options / Subcomponent Summary C Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS C Output: 10 Amps, 12/24 VDC UUT Properties UUT Properties Weight Dimensions [in] Lowest Nat. Free [lbs] Length Width Height F-B S-S 8 10.0 6.0 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip Artic.H Artic.H 2.00 1.0 1.5 3.20 2.40 - | | | | | | CN407440 | | | Potton/Charg |
| Astic housing | Astic housing | | | | | | GIVI87448 | | | Ballery Charge |
| Options / Subcomponent Summary C Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS C Uur Properties UUT Properties UUT Properties Weight Dimensions [in] Lowest Nat. Freq. [Hz] [Ibs] Length Width Height F-B S-S V 8 10.0 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Spsi r.z/h Image: Arus Arus Arus Arus Arus Arus Arus Arus | Options / Subcomponent Summary C Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS C Output: 10 Amps, 12/24 VDC UUT Properties UUT Properties Weight Dimensions [in] Lowest Nat. Free [Ibs] Length Width Height F-B S-S 8 10.0 6.0 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip ArtLxH ArtLxH ArtLx-V | | | | | Summary | onstruction | Product Co | | |
| Weight [lbs] Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Length Width Height F-B S-S V 8 10.0 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information AFLX-H ARIG-H AFLX-V ARIG-H Building Code Test Criteria Spsi Z/h I.0 1.5 3.20 2.40 - - 1.68 0.68 UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | C Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS C Output: 10 Amps, 12/24 VDC UUT Properties Weight [Ibs] Length Dimensions [in] Lowest Nat. Free 8 10.0 6.0 - 4.8 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip AFLX-H ARIG-H AFLX-V 2.00 1.0 1.5 3.20 2.40 - | | | | | | | | | astic housing |
| C Output: 10 Amps, 12/24 VDC UUT Properties UUT Properties UUT Properties UUT Properties UUT light Dimensions [in] Lowest Nat. Freq. [Hz] Length Width Height F-B S-S V 8 10.0 6.0 2.8 N/A N/A N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Spster Z/h Height 2.00 1.0 1.5 3.20 2.40 CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 Test Mounting Details UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | C Output: 10 Amps, 12/24 VDC UUT Properties UUT Properties Weight [Ibs] Length Width Height F-B S-S 8 10.0 6.9 - 0.4 8 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h A FLX-V 2.00 1.0 1.5 3.20 2.40 - | | | | y | nt Summary | bcomponei | Options / Su | | |
| UUT Properties Weight [lbs] Dimensions [in] Lowest Nat. Freq. [Hz] 8 10.0 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h A _{FLX-H} A _{RIG-H} A _{FLX-V} A _{RIG} CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - 1.68 0.68 UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Weight [lbs] Lowest Nat. Free Weight [lbs] Length Width Height F-B S-S 8 10.0 6.0 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip AFLX-H ARIG-H AFLX-V | | | | | | | MS | /60 Hz, 3.7 Amps RM | C Input: 100-260VAC, |
| Weight [lbs] Length Dimensions [in] Lowest Nat. Freq. [Hz] 8 10.0 6.0 2.8 N/A N/A N/A 8 10.0 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h Ip AFLX-H ARIG-H AFLX-V ARIG CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Weight [lbs] Dimensions [in] Lowest Nat. Free 8 10.0 6.0 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip A _{FLX-H} A _{RIG-H} A _{FLX-V} | | | | | | | | 4 VDC | C Output: 10 Amps, 12 |
| Weight [lbs] Length Dimensions [in] Lowest Nat. Freq. [Hz] 8 10.0 6.0 2.8 N/A N/A N/A 8 10.0 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h Ip AFLX-H ARIG-H AFLX-V ARIG CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Weight [lbs] Dimensions [in] Lowest Nat. Free 8 10.0 6.0 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip A _{FLX-H} A _{RIG-H} A _{FLX-V} | | | | | | | | | |
| Weight [lbs] Length Dimensions [in] Lowest Nat. Freq. [Hz] 8 10.0 6.0 2.8 N/A N/A N/A 8 10.0 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h Ip AFLX-H ARIG-H AFLX-V ARIG CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Weight [lbs] Dimensions [in] Lowest Nat. Free 8 10.0 6.0 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip A _{FLX-H} A _{RIG-H} A _{FLX-V} 2.00 1.0 1.5 3.20 2.40 - | | | | | | CODE | | | |
| Weight [lbs] Length Dimensions [in] Lowest Nat. Freq. [Hz] 8 10.0 6.0 2.8 N/A N/A N/A 8 10.0 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h Ip AFLX-H ARIG-H AFLX-V ARIG CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Weight [lbs] Dimensions [in] Lowest Nat. Free 8 10.0 6.0 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip A _{FLX-H} A _{RIG-H} A _{FLX-V} | | | | | C_{0} | CODE | FOK | | |
| Weight [lbs] Length Dimensions [in] Lowest Nat. Freq. [Hz] 8 10.0 6.0 2.8 N/A N/A N/A 8 10.0 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h Ip AFLX-H ARIG-H AFLX-V ARIG CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Weight [lbs] Length Dimensions [in] Lowest Nat. Free 8 10.0 6.0 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip A _{FLX-H} A _{RIG-H} A _{FLX-V} | | | | | | IT Propertie | | | |
| Image: Construction Length Width Height F-B S-S V 8 10.0 6.0 2.8 N/A N/A N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - Test Mounting Details UUT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 olts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Image: Normal line Length Width Height F-B S-S 8 10.0 6.0 2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Spst ar/h alp AFLX-H ARIG-H AFLX-V 2.00 1.0 1.5 3.20 2.40 - | [H7] | Nat Frog | | | | | | , P | Mainht. |
| 8 10.0 6.0 2.8 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h IP A _{FLX-H} A _{RIG-H} A _{FLX-V} A _{RIG} CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - <td>8 10.0 6.0 -0.4 8.2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Spsill and Z/h AFLX-H AFLX-H AFLX-V 2.00 1.0 1.5 3.20 2.40 -</td> <td></td> <td></td> <td></td> <td>· Z</td> <td></td> <td></td> <td></td> <td>5</td> <td></td> | 8 10.0 6.0 -0.4 8.2.8 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Spsill and Z/h AFLX-H AFLX-H AFLX-V 2.00 1.0 1.5 3.20 2.40 - | | | | · Z | | | | 5 | |
| UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h IP AFLX-H ARIG-H AFLX-V ARIG-H CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - CBC 2019 ICC-ES AC156 2.50 0.0 1.5 - - 1.68 0.68 UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 Mathematical and the stake table using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | UUT Highest Passed Seismic Run Information Building Code Test Criteria Spston Z/h AFLX-H ARIG-H AFLX-V 2.00 1.0 1.5 3.20 2.40 - | V | 5-5 | | gnt | MANNA Hel | | vvic | | |
| Building Code Test Criteria Spsl Z/h IP AFLX-H ARIG-H AFLX-V ARIG-H CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - 2.50 0.0 1.5 - - 1.68 0.68 UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Building Code Test Criteria Spston Z/h Karp AFLX-H ARIG-H AFLX-V 2.00 1.0 1.5 3.20 2.40 - | N/A | N/A | N/A | .8 | 8 2 | 9P-049 | 6. | 10.0 | 8 |
| CBC 2019 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - - 1.68 0.68 UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | | | | | nation | Run Inforn | ed Seismic | Highest Pass | UUT I | |
| CBC 2019 ICC-ES AC156 2.50 0.0 1.5 - - 1.68 0.68 Test Mounting Details UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | 2.00 1.0 1.5 3.20 2.40 - | A _{RIG-V} | A _{FLX-V} | A _{RIG-H} | A _{FLX-H} | Karlm | an ^{z/h} ad | BVS _{DS/ob} | Test <mark>Criter</mark> ia | Building Code |
| UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | | - | - | 2.40 | 3.20 | 1.5 | 1.0 | 2.00 | | 050.0040 |
| UT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) M6 8.8 bolts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | CBC 2019 ICC-ES AC156 2.50 0.0 1.5 1.68 | 0.68 | 1.68 | - | - | 1.5 | 0.0 | 2.50 | ICC-ES AC156 | CBC 2019 |
| olts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | Test Mounting Details | | | | | etails | Nounting Do | DA Test I | | |
| olts. The system was externally isolated using (4) VMC MSSH-1E-2990N spring isolators and attached to the shake table using | JUT-3B-F was attached to support bracket GM78810 with (4) M6 8.8 bolts and wall mounted to the junction box with (4) | VI6 8.8 | x with (4) N | ne iunction b | mounted to the | ts and wall r |) M6 8 8 bol | 78810 with (4 | support bracket GM | UT-3B-F was attached |
| A6 8.8 bolts. | | | | | | | | | | |
| | | eeg (e | | | 4. | | | | | |
| | | | | | | | | D. NORMAN | | |





•

UUT-4R

| | | | | | | Test F | Report: VMA | -50682-01E |
|-------------------------|---|---------------|---------------|---------------------------|--------------------|--------------------|--------------------|--------------------|
| Model Line | | M | odel Numb | er | | Ν | Manufacture | er |
| Battery Charg | er | | GM87448 | | | | Kohler | |
| | | Product Co | onstruction | Summary | | | | |
| astic housing | | | | | | | | |
| | | Options / Su | bcompone | nt Summar | ·v | | | |
| | 50/60 Hz, 3.7 Amps RM | | | | 5 | | | |
| C Output: 10 Amps, 12 | 2/24 VDC | | | | | | | |
| | | FOR | CODE | CON | | | | |
| | | UL | JT Properti | es | | | | |
| Weight | Le la | Dimensio | | | 4 | | st Nat. Freq | . [Hz] |
| [lbs] | Length | Wic | | | ight | F-B | S-S | V |
| 8 | 10.0 | Highest Pass | <u>9P-049</u> | | 2.8 mation | N/A | N/A | N/A |
| Building Code | Test Criteria | Spsloh | z/h | Karl | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| - | | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | - | - |
| CBC 2019 | ICC-ES AC156 | 2.50 | 0.0 | 1.5 | - | - | 1.68 | 0.68 |
| | | DA Test I | Nounting D | etails | | | | |
| he junction box was rig | pidly attached to the sha | ke table usin | | ysterns Lo Lo Lo | | | | |
| | | | | 10/ | 11/2016 | 13:26 | | |



Summary Sheet

UUT-4F

VINA EDGOD

| | | | | | | | Report. VINA | |
|-----------------------|----------------------------|-----------------------|------------------|----------------|--------------------|--------------------|--------------------|--------------------|
| Model Line | | M | odel Numbe | ər | | N | Manufacture | r |
| Battery Charg | er | | GM87448 | | | | Kohler | |
| | | Product Co | onstruction | Summary | | | | |
| lastic housing | | | | | | | | |
| | | Options / Su | bcompone | nt Summar | v | | | |
| C Input: 100-260VAC, | 50/60 Hz, 3.7 Amps RM | - | | | <u>y</u> | | | |
| C Output: 10 Amps, 12 | | | | | | | | |
| | | | CODE | | | | | |
| | | FOR | CODE | COA | | | | |
| | | U | JT Propertie | es |), C | | | |
| Weight | L. | Dimensio | ons [in] | | 4 | Lowes | st Nat. Freq | . [Hz] |
| [lbs] | Length | Wic | dth | He | ight | F-B | S-S | v |
| 8 | 10.0 | 6 | $J \cup T \cup$ | 0 | 2.8 | N/A | N/A | N/A |
| | | lighest Pass | ed Seismic | Run Infor | | | | [|
| Building Code | Test Criteria | BV S _{psloh} | am z/h ad | Karlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2019 | ICC-ES AC156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | - | - |
| | | 2.50 | 02/24/2 | 1.5 | | - | 1.68 | 0.68 |
| | | lest | Nounting D | etalis | | | | |
| .8 bolts. | ally isolated using (4) VM | | | | | | | g (0) wo |
| | | | | | | | | |
| All units y | were filled with contents | and maintair | ned structure | al integrity a | and functions | lity after AC. | 156 test | |

maintained structural integrity



UUT-5R

Summary Sheet

| Battery Charger | | M | odel Numbe | r | | Ν | lanufacture | er | |
|--|---------------|--------------|----------------------|--------------|--------------------|--------------------|--------------------|------------------|--|
| | | GM87448 | | | | Kohler | | | |
| | | Product C | onstruction | Summary | | | | | |
| stic housing | | | | | | | | | |
| | | Options / Su | Ibcomponer | t Summar | y | | | | |
| Input: 100-260VAC, 50/60 Output: 10 Amps, 12/24 \ | | FOR | CODE | СОЛ | _ | | | | |
| | | U | JT Propertie | s | | | | | |
| Weight | L.S. | Dimensio | ons [in] | | 5 | Lowes | st Nat. Freq | . [Hz] | |
| [lbs] | Length | Wic | dth | Hei | ght | F-B | S-S | v | |
| 8 | 10.0 | | <u>9P-049</u> | 0 | .8 | N/A | 24.0 | N/A | |
| | | Highest Pass | sed Seismic | Run Inforr | nation | | | | |
| Building Code | Test Criteria | BV Spsloh | am ^{z/h} ad | Karlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG} | |
| CBC 2019 | ICC-ES AC156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | - | - | |
| | | 2.50 | 0.0 | 1.5 | · · | - | 1.68 | 0.68 | |
| JT-5R was attached to sup | | | Mounting De | A LOW A DOWN | 32 | | | | |





Summary Sheet

UUT-5F

| | | | | | | Test F | Report: VMA | -50682-01 |
|---|---------------------------|--------------------|-------------------|----------------|--------------------|--------------------|--------------------|--------------------|
| Model Line | | Μ | lodel Numb | er | | 1 | Manufacture |)r |
| Battery Charg | er | | GM87448 | | | | Kohler | |
| | | Product C | onstruction | Summary | , | | | |
| Plastic housing | | | | | | | | |
| | | | | | | | | |
| AC Input: 100-260VAC, DC Output: 10 Amps, 12 | 50/60 Hz, 3.7 Amps RM | Options / Su 1S | | nt Summai | ry | | | |
| | | FOR | CODE | COA | | | | |
| | | | UT Properti | es | | Lawa | of Not From | <u></u> |
| Weight [Ibs] | Length | | ons [in] dth | | eight | | st Nat. Freq | v |
| 8 | 10.0 | | 9.P_040 | | 2.8 | F-B 23.0 | S-S 18.8 | v 8.8 |
| 0 | | Highest Pas | | | | 23.0 | 10.0 | 0.0 |
| Building Code | Test Criteria | Sps/ob | z/h | Karlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| - | | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | - | - |
| CBC 2019 | ICC-ES AC156 | 2.50 | 0.0 | 1.5 | - | - | 1.68 | 0.68 |
| | | | /il Dir | 11:49 | | | | |
| All units | were filled with contents | and maintai | ned structura | al integrity a | and functiona | lity after AC | -156 test. | |



UUT-6A-R

Summary Sheet

Test Report: VMA-50682-01E Model Line Model Number Manufacturer **Battery Charger** GM87448 Kohler **Product Construction Summary** Plastic housing **Options / Subcomponent Summary** AC Input: 100-260VAC, 50/60 Hz, 3.7 Amps RMS DC Output: 10 Amps, 12/24 VDC DDF **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Length Width Height F-B S-S V 10.0 8 6.0 2.8 N/A 10.8 N/A UUT Highest Passed Seismic Run Information **Building Code** Test Criteria SDS z/h $\mathbf{A}_{\mathsf{RIG-H}}$ $\mathbf{A}_{\mathsf{RIG-V}}$ I_P A_{FLX-H} A_{FLX-V} 2.00 1.0 1.5 3.20 2.40 CBC 2019 ICC-ES AC156 2.50 0.0 1.5 1.68 0.68 _ _ Test Mounting Details UUT-6A-R was attached to support bracket GM95037 with (4) M6 8.8 bolts and rigid base mounted to the shake table using (2) M6 8.8 bolts. UUT-06A-



UUT-6A-F

Summary Sheet

| | | Μ | odel Numb | ər | | Ν | lanufacture | r |
|---|-----------------------------------|---------------------------------------|------------------|--------------------------|--------------------|--------------------|--------------------|-------------------|
| Battery Charge | er | | GM87448 | | | Kohler | | |
| | | Product Co | onstruction | Summary | | | | |
| stic housing | | | | | | | | |
| | | Options / Su | bcompone | nt Summary | y | | | |
| Input: 100-260VAC, Output: 10 Amps, 12 | 50/60 Hz, 3.7 Amps RM 2/24 VDC | IS | | | | | | |
| | | FOR | CODE | COA | | | | |
| Maight | , NY | UL | JT Propertio | es | | | st Nat. Freq. | [H7] |
| Weight [lbs] | Length | Wid | | Hei | ght | F-B | S-S | V |
| 8 | 10.0 | | 0P_049 | | .8 | 23.0 | 10.3 | N/A |
| | | Highest Pass | ed Seismic | Run Inform | nation | | | |
| Building Code | Test <mark>Criter</mark> ia | BVS _{DS/IOH} | am z/h ad | Karlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-} |
| CBC 2019 | ICC-ES AC156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | - | - |
| 000 2010 | | 2.50 | 0.0 | 1.5 | <u> </u> | - | 1.68 | 0.68 |
| | to support bracket GM | A A A A A A A A A A A A A A A A A A A | Nounting D | A DESCRIPTION OF TAXABLE | W 25 | | | |
| ig (<i>2)</i> inio 0.0 doits. T | The system was external | | | T-06A-F | | y isolators. | | |

All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UUT-6B-R

Summary Sheet

| | | | | | Test F | Report: VMA | -50682-0 | |
|---------------------------------|-----------------------------|--------------------------------|--------|--------------------|---------------------|--------------------|------------------|--|
| Model Line | } | Model Number | | | | Manufacturer | | |
| Battery Charg | ger | GM87448 | | | Kohler | | | |
| | | Product Construction S | ummary | | | | | |
| astic housing | | | | | | | | |
| | | | | | | | | |
| | | Options / Subcomponent | Summar | у | | | | |
| | , 50/60 Hz, 3.7 Amps RI | MS | | | | | | |
| C Output: 10 Amps, 1 | 2/24 VDC | | | | | | | |
| | | ODE | | | | | | |
| | | FORCOBL | -OA | | | | | |
| | | UUT Properties | | 2 | | | | |
| Weight | 4 | Dimensions [in] | | | Lowest Nat. Freq. [| | | |
| [lbs] | Length | Width | | ight | F-B | S-S | V | |
| 8 | 10.0 | <u>69P-0498</u> | / | 2.8 | N/A | 10.8 | N/A | |
| | | Highest Passed Seismic R | | | • | • | • | |
| Building Code | Test Criteria | BY Spslohamz/had K | arlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG} | |
| CBC 2019 | ICC-E <mark>S AC1</mark> 56 | 2.00 1.0 | 1.5 | 3.20 | 2.40 | - | - | |
| | | 2.50 0.0 Test Mounting Deta | 1.5 | - - | - | 1.68 | 0.68 | |
| UT-6B-R was attache 8 bolts. | d to support bracket GM | 195037 with (4) M6 8.8 bolts | | | ed to the sha | ake table us | ing (2) N | |



UUT-6B-F

Summary Sheet

| | | | | | Test F | Report: VMA | -30002-0 | |
|--|-----------------------------|---|------------------------------|--------------------|--------------------|--------------------|------------------|--|
| Model Line |) | Model Numbe | er | | Manufacturer | | | |
| Battery Charg | ger | GM87448 | | | | Kohler | | |
| | | Product Construction | Summarv | | | | | |
| astic housing | | | | | | | | |
| | | | | | | | | |
| | | Options / Subcompone | nt Summar | у | | | | |
| Input: 100-260VAC, Output: 10 Amps, 1 | , 50/60 Hz, 3.7 Amps R | MS | | | | | | |
| , Output. To Amps, T | 2/24 VDC | | | | | | | |
| | | FORCODE | Co. | | | | | |
| | 1 | UUT Propertie | es | 0. | | | | |
| Weight | L.S | Dimensions [in] | | K | Lowes | st Nat. Freq | . [Hz] | |
| [lbs] | Length | Width | He | ight | F-B | S-S | V | |
| 8 | 10.0 | 09P-049 | 8 2 | 2.8 | N/A | N/A | N/A | |
| | | Highest Passed Seismic | Run Infor | mation | | | | |
| Building Code | Test <mark>Criter</mark> ia | BV ^{S_{pSlohan}z/h_{ad}} | Karlm | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG} | |
| | | | | | | | | |
| CBC 2019 | ICC-ESAC156 | 2.00 1.0 | 1.5 | 3.20 | 2.40 | - | - | |
| CBC 2019 | ICC-E <mark>S AC1</mark> 56 | 2.500.0 | 1.5 | - | 2.40 - | - 1.68 | | |
| IT-6B-F was attached | d to support bracket GN | | 1.5 etails ts and base | e mounted to | - the shake ta | | 0.68 | |