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| Prüfbericht-Nr.: <i>Test report no.:</i> | CN25CVJ8 005 | Auftrags-Nr.: <i>Order no.:</i> | 326170359 | Seite 1 von 220 Page 1 of 220 |
| Kunden-Referenz-Nr.: <i>Client reference no.:</i> | 2334702 | Auftragsdatum: <i>Order date:</i> | 2026-01-22 | |
| Auftraggeber: <i>Client:</i> | Fortress Power LLC 2010 Cabot Blvd W Suite L, Langhorne, PA 19047 USA | | | |
| Prüfgegenstand: <i>Test item:</i> | Utility-interactive hybrid inverter | | | |
| Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i> | FP-Nano-30k-L, FP-Nano-30k-N, FP-Nano-40k-N, FP-Nano-50k-N, FP-Nano-60k-N | | | |
| Auftrags-Inhalt: <i>Order content:</i> | Test report | | | |
| Prüfgrundlage: <i>Test specification:</i> | UL 3141, issue Number: 2, October 9, 2024 | | | |
| Wareneingangsdatum: <i>Date of sample receipt:</i> | 2026-01-26 |  | | |
| Prüfmuster-Nr.: <i>Test sample no.:</i> | A004195010-001 | | | |
| Prüfzeitraum: <i>Testing period:</i> | 2026-02-07 to 2026-03-03 | | | |
| Ort der Prüfung: <i>Place of testing:</i> | TÜV Rheinland (Shanghai) Co., Ltd. No.177, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China | | | |
| Prüflaboratorium: <i>Testing laboratory:</i> | TÜV Rheinland (Shanghai) Co., Ltd. | | | |
| Prüfergebnis*: <i>Test result*:</i> | Pass | | | |
| geprüft von: <i>tested by:</i> |  Mike Yu | genehmigt von: <i>authorized by:</i> |  Derek Yang | |
| Datum: <i>Date:</i> | 2026-03-03 | Ausstellungsdatum: <i>Issue date:</i> | 2026-03-03 | |
| Stellung / Position: | Sachverständige(r)/Expert | Stellung / Position: | Sachverständige(r)/Expert | |
| Sonstiges / <i>Other:</i> | <p>- This report was based on the original test report CN25CVJ8 001/002/003/004. - The mentioned model listed on above are identical to the original models in the previous section reports CN25CVJ8 001/002/003/004 except for model names, trademark and/or license holder etc. See following pages for details.</p> | | | |
| Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i> | Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i> | | | |
| <p>* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p> | | | | |
| <p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p> | | | | |


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Test report no.:

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Anmerkungen
Remarks

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| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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| TEST REPORT UL 3141 CRD Outline of Investigation for Power Control Systems (Issued Number: 2, October 9, 2024) | |
| Report Number.....: | CN25CVJ8 005 |
| Date of issue.....: | See cover page |
| Total number of pages.....: | See cover page |
| Name of Testing Laboratory.....: | TÜV Rheinland (Shanghai) Co., Ltd. |
| Address.....: | No.177, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China |
| Applicant's Name.....: | Fortress Power LLC |
| Address.....: | 2010 Cabot Blvd W Suite L,Langhorne, PA 19047 USA |
| Test specification: | |
| Standard.....: | UL 3141, issue number: 2, October 9, 2024 |
| Test procedure.....: | Test Report |
| Non-standard test method.....: | N/A |
| Test Report Form No..... : | N/A |
| Test Report Form(s) Originator.....: | TÜV Rheinland of North America, Inc. |
| General disclaimer: | |
| <p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory.</p> | |
| Others: | |
| <ol style="list-style-type: none"> 1. This is a test report for utility-interactive hybrid inverter models of FP-Nano-30k-L, FP-Nano-30k-N, FP-Nano-40k-N, FP-Nano-50k-N, FP-Nano-60k-N. all test results come from original test report CN25CVJ8 001/002/003/004. 2. Evaluated to UL 3141, issue number: 2, October 9, 2024 for Busbar Overload Control (BBOC) for Multisource PCS, and for Power import limiting (PIL) functionality and Power export limiting (PEL) functionality; 3. Also evaluated to UL 1741 Ed.3 CRD: PCS for ESS operating modes: a) Unrestricted Mode; b) Export Only Mode; c) Import Only Mode; and d) No Exchange Mode; 4. Functional safety evaluation for PCS function is excluded in this report. | |

| Test item particulars | |
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| Description | Utility-interactive hybrid inverter |
| Trademark..... |  |
| Manufacturer | Fortress Power LLC 2010 Cabot Blvd W Suite L, Langhorne, PA 19047 USA |
| Factory | Ginlong technologies Co., Ltd. No. 188 Jinkai Road, Binhai Industrial Park, Xiangshan, Ningbo, Zhejiang, 315712, P. R. China |
| Model..... | FP-Nano-30k-L, FP-Nano-30k-N, FP-Nano-40k-N, FP-Nano-50k-N, FP-Nano-60k-N |
| Input Voltage | See model list on pages 8 to 10 for details. |
| Frequency | See model list on pages 8 to 10 for details. |
| Input current | See model list on pages 8 to 10 for details. |
| Input Power | See model list on pages 8 to 10 for details. |
| Output Voltage Range | See model list on pages 8 to 10 for details. |
| Output Current Range | See model list on pages 8 to 10 for details. |
| Max output power | See model list on pages 8 to 10 for details. |
| Aux. input voltage | See model list on pages 8 to 10 for details. |
| Installation mode..... | See model list on pages 8 to 10 for details. |
| Enclosure Type | See model list on pages 8 to 10 for details. |
| Overvoltage category | See model list on pages 8 to 10 for details. |
| Rated ambient temperature | See model list on pages 8 to 10 for details. |
| Protection class of equipment | See model list on pages 8 to 10 for details. |
| Possible test case verdicts: | |
| - test case does not apply to the test object..... | N/A |
| - test object does meet the requirement .. | P (Pass) |
| - test object does not meet the requirement | F (Fail) |
| Testing..... | |
| Date(s) of performance of tests..... | See cover page |

| Responsible Testing Laboratory (as applicable), testing procedure and testing location(s): | | |
|--|--|--|
| <input checked="" type="checkbox"/> | Testing Laboratory: | TÜV Rheinland (Shanghai) Co., Ltd. |
| | Testing location/ address : | No.177, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China |
| | Tested by (name, function, signature) : | Mike Yu / Engineer See cover page. |
| | Approved by (name, function, signature) .. : | Derek Yang / Authorizer See cover page. |
| <hr/> | | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 1/TMP: | |
| | Testing location/ address : | |
| | Tested by (name, function, signature) : | |
| | Approved by (name, function, signature) .. : | |
| <hr/> | | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 2/WMT: | |
| | Testing location/ address : | |
| | Tested by (name + signature)..... : | |
| | Witnessed by (name, function, signature) . : | |
| | Approved by (name, function, signature) .. : | |
| <hr/> | | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 3/SMT: | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 4: | |
| | Testing location/ address : | |
| | Tested by (name, function, signature) : | |
| | Witnessed by (name, function, signature) . : | |
| | Approved by (name, function, signature) .. : | |
| | Supervised by (name, function, signature) : | |
| <hr/> | | |
| <u>List of Attachments:</u> | | |
| N/A | | |