

Prüfbericht-Nr.: <i>Test report no.:</i>	CN26Q5GW 001	Auftrags-Nr.: <i>Order no.:</i>	326178369	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2487803	Auftragsdatum: <i>Order date:</i>	2026-03-24	
Auftraggeber: <i>Client:</i>	NINGBO DEYE ESS TECHNOLOGY CO., LTD. No.568, South Rixian Road, Binhai Economic Development Zone, Cixi, Ningbo, Zhejiang, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Rechargeable Li-ion Battery System			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	SE-F16 Max-6			
Auftrags-Inhalt: <i>Order content:</i>	Test report			
Prüfgrundlage: <i>Test specification:</i>	Refer to UL 50E-2020			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-07-02			
Prüfmuster-Nr.: <i>Test sample no.:</i>	2026GC-0491-A01			
Prüfzeitraum: <i>Testing period:</i>	2026-07-06 – 2026-07-06			
Ort der Prüfung: <i>Place of testing:</i>	See page 3 for details			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i>	2026-07-07		2026-07-07	
Stellung / Position:	Feiyu Chen Project Engineer		Wilson Zhou Reviewer	
Sonstiges / Other:	Following relevant tests and evaluation, no water ingress occurred to the sample. ANSI/NEMA 250-2020 is used as the reference standard.			
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>			
* 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
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>				

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Anmerkungen Remarks

1	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. <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>
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3	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. <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>
4	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. <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>

1 General information

1.1 Test specification

Standard: Refer to UL 50E

Enclosures for Electrical Equipment, Environmental Considerations

This report presents the result of the enclosure of UL 50E: 2020.

All tests were conducted at TUV Rheinland (Shanghai) Co., Ltd. and TUV Rheinland's partner labs and CQC-Guochuang Testing Technology (JIANGSU) Co., Ltd. that were under supervision of TÜV Rheinland's engineer.

Testing period: 2026-07-06 – 2026-07-06

1.2 General remarks

This report is descriptive and provide the test data only.

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 testing laboratory.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

1.3 List of attachments

None.

1.4 Revision information

New report, not applicable

1.5 Definitions

TYPE 3R – Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection against ingress of solid foreign objects (falling dirt); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, and snow); and that will be undamaged by the external formation of ice on the enclosure.

2 Product Information

The product information and parameters were provided by the client as below.

2.1 Rechargeable Li-ion Battery System

2.1.1 Product information and parameters

Owner	NINGBO DEYE ESS TECHNOLOGY CO., LTD.
Manufacturer	NINGBO DEYE ESS TECHNOLOGY CO., LTD.
Model	SE-F16 Max-6
Protective class	I
Enclosure rating	Type 3R
Weight	118 kg
Dimension	464mm(W) × 914mm(H) × 244.5mm(D)
Notes: Diagram with overall dimension.	

2.1.2 Product illustration

1. SE-F16 Max-6 is a residential rechargeable Li-ion battery system of DEYE's SE-F series, with a specification of 51.2V, 16kWh. It is specially designed for high-capacity applications and long-term outdoor reliability.
2. SE-F16 Max-6 is constructed with YPH3L7-314Ah battery cells in 1P16S.
3. SE-F16 Max-6 has two variants: US version and AU version, supplied for different target markets. The only difference between them lies in the plugs for wiring ports. Refer to the attached component list of this report.

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2.2 Result

See check as below refer to UL 50E.

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UL 50E			
Clause	Requirement + Test	Result - Remark	Verdict

Enclosures for Electrical Equipment, Environmental Considerations

6	Enclosure Types and Applications		P
6.1	Protection against specific environmental conditions as defined for each environmental type (see Clause 5.7) is applicable only when the enclosure is completely and properly installed.	Type 3R	P
6.2	All mechanical and electrical parts mounted on or through an enclosure shall pass the applicable tests for the enclosure type unless otherwise specified in the standard.		P
6.3	Table 1 indicates the environmental conditions that each enclosure type is tested for and aids in comparing applications for enclosure types.		P
7	Construction		P
7.1	Polymeric materials		N/A
7.1.1	Polymeric materials exposed to direct sunlight used for Types 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 6, and 6P enclosures or polymeric materials used for fastenings and/or hinges for these enclosure types shall comply with the Ultraviolet light exposure test (Weatherometer test) specified in Annex B, Ref. No. 1.	Metal enclosure	N/A
7.1.2	Polymeric materials used for Types 6 and 6P enclosures or polymeric materials used for fastenings and/or hinges for these enclosure types shall comply with the Water exposure and immersion tests specified in Clause 8.16.		N/A
7.2	Corrosion protection		P
7.2.1	General		P
7.2.1.1	Enclosures made of the following materials shall be considered to comply with the indoor and outdoor corrosion requirements: a) Copper, aluminum, or stainless steel; and b) Bronze or brass, either of which containing at least 80 percent copper.		P
7.2.1.2	Enclosures shall not be constructed of metals in any combination such as to cause galvanic action that will adversely affect any part of the equipment exposed to moisture.		P
7.2.1.3	Fasteners and hinges used on an enclosure shall be resistant to corrosion and shall comply with the same requirements as the enclosure. Brass inserts containing at least 60 percent copper shall be considered to comply with the indoor and outdoor corrosion requirements.		P

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7.2.1.4	Other than as permitted by Clause 7.2.1.5, both the inside and outside surfaces of an enclosure made of ferrous material, along with any external ferrous parts attached to these enclosures, shall be protected against corrosion in accordance with Clause 7.2.2, 7.2.3, or 7.2.4.		P
7.2.1.5	The corrosion protection requirement does not apply to: a) Bearings, sliding surfaces of a hinge or shaft, and the like, located on the exterior of these enclosures; b) Sheared or cut edges and punched holes of galvanized sheet steel; c) Parts such as a decorative grill, and the like, that are not required to form part of these enclosures.		P
7.2.2	Indoor corrosion		N/A
7.2.2.1	Type 1, 2, 5, 12, 12K, and 13 ferrous enclosures and external ferrous parts attached to these enclosures either: a) Shall be protected against corrosion by enameling, painting, galvanizing, or other equivalent means; or b) Shall be tested in accordance with Clause 8.7.		N/A
7.2.3	Outdoor corrosion		P

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7.2.3.1	Type 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 6, and 6P ferrous enclosures, and external ferrous parts attached to these enclosures shall be protected against corrosion by one of the coatings in Clause 7.2.3.1 (a) – (d) or shall comply with the test requirements of Clause 8.8: a) Hot-dipped mill-galvanized sheet steel conforming with the coating Designation G90 in Annex B, Ref. No. 2 b) A zinc coating, other than that provided on hot-dipped mill-galvanized sheet steel, uniformly applied to an average thickness of not less than 0.015 mm (0.00061 inch) on each surface with a minimum thickness of 0.014 mm (0.00054 inch). The thickness of coating shall be established by the metallic-coating-thickness test described in Annex B, Ref. No. 3 or No. 13; an annealed coating shall comply with Clauses 7.2.3.3 and 7.2.3.4; c) A zinc coating conforming with Clause 7.2.3.1(c)(1) or 7.2.3.1(c)(2) and with one coat of an organic finish of the epoxy or alkyd-resin type or other outdoor paint applied after forming on each surface. 1) Hot-dipped mill-galvanized sheet steel conforming to the coating Designation G60 or A60 in Annex B, Ref. No. 2; or 2) A zinc coating, other than that provided on hot-dipped mill-galvanized sheet steel, uniformly applied to an average thickness of not less than 0.010 mm (0.00041 inch) on each surface with a minimum thickness of 0.009 mm (0.00034 inch); the thickness of the coating shall be established by the metallic-coating-thickness test described in Annex B, Ref. No. 3 or No. 13. The acceptability of the paint may be determined by consideration of its composition or by corrosion tests if these are considered necessary; or, d) Paint shall comply with the requirements in Clause 8.8 or Annex B, Ref. No. 7;	Type 3R (c) Certified material provided	P
7.2.3.2	Type 3X, 3RX, 3SX, 4X, and 6P ferrous enclosures, and external ferrous parts attached to these enclosures, conforming to 7.2.4.1(a) shall be considered to have met the requirements.		N/A
7.2.3.3	An annealed coating on sheet steel that is bent or similarly formed or extruded or rolled at edges of holes after annealing shall be additionally painted in the affected area if the process damages the zinc coating. See Clause 7.2.3.1(b).		N/A

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7.2.3.4	If flaking or cracking of the zinc coating at the outside radius of the bent or formed section is visible at 25 power magnification, the zinc coating is considered to be damaged. Simple sheared or cut edges and punched holes are not required to be additionally protected. See Clauses 7.2.3.1(b) and 7.2.3.8.		N/A
7.2.3.5	A hot-dipped mill-galvanized G90 coating shall not be damaged during handling or fabrication to the extent that the base metal is exposed, other than as allowed by Clauses 7.2.3.6 and 7.2.3.7. See Clause 7.2.3.1(a).		P
7.2.3.6	In accordance with Clause 7.2.3.5, uncoated cross-sectional surfaces at cut edges and drilled openings are acceptable.		P
7.2.3.7	In accordance with Clause 7.2.3.5, the base metal may be exposed if: a) The maximum width and length of the exposed metal does not exceed the thickness and length of any cut edge on the sheet; or b) The surface has one coat of an organic finish of the epoxy or alkyd-resin type, or other outdoor paint applied after fabrication.		P
7.2.3.8	Sheet steel that employs a hot-dipped mill-galvanized G90 coating that is drawn, formed, extruded, or rolled shall be additionally painted with one coat of an organic finish of the epoxy or alkyd-resin type or other outdoor paint in the areas that are affected by a process that damages the coating as determined by the requirement in Clause 7.2.3.4. See Clause 7.2.3.1(b).		P
7.2.3.9	An enclosure of cast iron or malleable iron at least 3.2 mm (1/8 inch) thick shall be protected against corrosion by: a) A 0.0038 mm (0.00015 inch) thick coating of zinc, cadmium, or the equivalent, on the outside surface and a visible coating of such metal on the inside surface; or b) One coat of an organic finish of the epoxy or alkyd-resin type or other outdoor paint on each surface. The acceptability of the paint may be determined by consideration of its composition or, if necessary, by Corrosion tests as specified in Clause 8.8.		P
7.2.4	Additional corrosion protection		N/A
7.2.4.1	Type 3X, 3RX, 3SX, 4X, and 6P enclosures, and external parts attached to these enclosures, shall be manufactured of: a) Austenitic stainless steel designated as American Iron and Steel Institute (AISI) Type 302, 303, 304, 305, 309, or 316; b) Polymerics; or c) Other materials that have been determined to comply with Clauses 7.2.3 and 8.9.		N/A
7.3	Openings		P
7.3.1	General		P

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7.3.1.1	Other than as permitted by Clause 7.3.1.2, openings provided in an enclosure shall comply with the tests in Table 2 or Table 6 with these openings unfilled.		P
7.3.1.2	Openings in accordance with Clause 7.3.2, if provided in the test enclosure, shall be filled as intended to maintain the environmental integrity of the enclosure.		N/A
7.3.1.3	Joints for all devices closing openings into the equipment cavity of a Type 12 or 12K enclosure, as well as any door or cover for a Type 12 or 12K enclosure, shall include a gasket in the full length of the joint. The gasket shall comply with the requirements of Clause 8.13.		N/A
7.3.2	Equipment openings		P
7.3.2.1	Enclosures may be provided with openings that are intended to be closed by field-installed equipment (such as pushbutton switches, door latches, etc.) if these enclosures are marked in accordance with Clause 9.6.		P
7.3.3	Drainage openings		P
7.3.4	Mounting openings		P
7.3.5	Ventilation		N/A
7.4	Conduit connection		P
7.4.1	General		P
7.4.2	Hubs and fittings		P
7.4.3	Knockouts and breakouts		N/A
7.5	External operating mechanisms		N/A
7.5.1	External operating mechanisms, when mounted on or through the enclosure, shall comply with the applicable design tests in Table 2 or Table 6 for the enclosure type unless otherwise specified.		N/A
7.5.2	External operating mechanisms on a Type 3S and 3SX enclosure shall support the additional weight of ice and withstand the removal of ice by a hand tool. See Clause 8.5.		N/A
7.6	Access to interior		P
7.6.1	Types 3, 3X, 3R, 3RX, 3S, 3SX, 5, 12, and 12K enclosures shall require the use of a tool to gain access to the equipment cavity or shall have provisions for locking. When the provision for locking is provided as an accessory: a) The accessory shall be shipped with the enclosure of which it is intended to be installed; and b) Both the accessory and the enclosure shall comply with Clause 9.		P
7.6.2	All closing hardware for Type 5, 12, and 12K enclosures shall be captive.		N/A
7.7	Gaskets		P

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7.7.1	A gasket of elastomeric or thermoplastic material or a composition gasket utilizing an elastomeric material that is provided on a Type 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K, or 13 enclosure to meet the environmental construction and performance requirements of this standard shall comply with the Gasket test of Clause 8.13.2 or 8.13.5.		P
7.7.2	A gasket provided on a Type 12, 12K, or 13 enclosure shall be oil resistant and shall additionally comply with the Oil immersion test in Clause 8.13.4.		N/A
7.7.3	A gasket shall be secured with adhesive or by mechanical means. The gasket and its securing means shall not be damaged when the joint is opened.		N/A
7.7.4	A cellular (open cell and closed cell) gasket of elastomeric or thermoplastic material or a composition gasket utilizing an elastomeric material which is under periodic compression and that is provided on a Type 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K, or 13 enclosure to meet the environmental construction and performance requirements of this standard shall comply with the Gasket test of Clause 8.13.3. Gaskets under periodic compression are those which are subject to prolonged periods of compression followed by occasional, short periods of relaxation where the seal provided by the gasket may be broken during the life of the application and, after each such occurrence, the gasket is expected to provide the same seal when recompressed. Gaskets that are between parts of the enclosure not intended to be removed under regular use or maintenance are considered to not be under periodic compression. Note: Gaskets under doors or covers intended to be opened or removed in the end use would be considered to be under periodic compression.		N/A
7.7.5	Gaskets under continuous compression are not required to comply with the Gasket tests of Clause 8.13.3.		N/A
7.7.6	Gaskets made of solid (non-cellular) elastomeric material are not required to comply with the Gasket tests of Clause 8.13.3.		N/A
7.7.7	Gaskets that have an air space which is compressed to create the environmental seal are not required to comply with the Gasket tests of Clause 8.13.3.		P
8	Tests		P
8.1	General		P
8.1.1	The following design tests shall be used to demonstrate conformance with this standard. The enclosure and its enclosed equipment shall be mounted (including all mounting options) as intended for use in service.		P

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8.1.2	Each non-ventilated enclosure type shall be evaluated to the specific design tests as outlined in Table 2. Each ventilated enclosure type shall be evaluated to the specific design tests as outlined in Table 6.		P
8.1.3	Screws and screw type fasteners for doors or covers on enclosures not marked per Clause 9.8 shall be tightened to the following values: a) A No. 6 screw capable of being tightened with a screwdriver shall be tightened to a torque of 1.36 N•m (12 lbf-in); b) A No. 8 screw capable of being tightened with a screwdriver shall be tightened to a torque of 2.26 N•m (20 lbf-in); c) A screw capable of being tightened with a screwdriver other than No. 6 or No. 8 shall be tightened to a torque of 3.96 N•m (35 lbf-in); d) An unslotted, bolthead screw, direct-bearing or securing a clamp, shall be wrench-tightened to a torque of 18.1 N•m (160 lbf-in).		P
8.1.4	Screws and screw type fasteners for doors or covers on enclosures marked per Clause 9.8 shall be tightened to the specified value.		P
8.2	Drip test		N/A
8.2.1	Method A		N/A
8.2.1.1	The enclosure shall be mounted beneath a drip test apparatus that extends beyond all exposed sides of the enclosure. The drip test apparatus shall be equipped with uniformly distributed drip sources. There shall be one drip source for each 129 cm ² (20 in ²) of test surface area and each drip source shall have a drip rate of at least 20 drops of water per minute. The enclosure shall be subjected to continuously dripping water for 30 minutes. Conduit shall be connected as intended.		
8.2.2	Method B		N/A
8.2.2.1	The enclosure with conduit connected shall be mounted as intended and the top exposed to a water spray falling for 1 hour at the rate of 25 ±10 mm/h (1 ±3/8-in/h), at any angle up to 15 degrees from the vertical.		N/A
8.2.2.2	A Type 2 enclosure shall be considered to have met the requirements if at the conclusion of the test: a) There is no accumulation of water within the enclosure; and b) No water has entered the enclosure at a level higher than the lowest live part, other than as permitted by Clause 8.2.2.3.		N/A

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8.2.2.3	In accordance with Clause 8.2.2.2, water may enter above live parts in an enclosure that complies with Clause 9.5.3 if the equipment is so constructed that no water is visible on the live parts, insulating material, or mechanism parts, and no water has entered any space within the enclosure in which wiring may be present under any proper installation conditions.		N/A
8.3	Rain test		P
8.3.1	A complete enclosure with conduit connected shall be mounted as in actual service, except that the conduit shall be connected without using pipe thread sealing compound. Rigid conduit shall be threaded into the opening in the enclosure and tightened with torques specified in Table 3.		P
8.3.2	The test apparatus shall consist of at least three spray heads mounted in a water supply pipe rack as shown in Figure 1. Spray heads shall be constructed in accordance with the details shown in Figure 2.		P
8.3.3	The enclosure shall be positioned in the focal area of the spray heads so that the greatest quantity of water is likely to enter the enclosure. The water pressure shall be maintained at 34.5 kPa (5 psi) at each spray head and a continuous water spray shall be applied for one hour.		P
8.3.4	A Type 3R or 3RX enclosure shall be considered to have met the requirements if at the conclusion of the test: a) There is no accumulation of water within the enclosure; and b) No water has entered the enclosure at a level higher than the lowest live part, other than as permitted by Clause 8.3.5.	Type 3R	P
8.3.5	Water may enter above live parts in an enclosure that complies with Clause 9.5.3 if the equipment is so constructed that no water is visible on the live parts, insulating material, or mechanism parts, and no water has entered any space within the enclosure in which wiring may be present under any proper installation conditions.	Comply	P
8.4	Dust test		N/A
8.4.1	Outdoor dust test		N/A
8.4.1.1	Dust blast method		N/A
8.4.1.2	Hose method		N/A
8.4.2	Indoor dust test		N/A
8.4.2.1	Circulating dust test		N/A
8.4.2.2	Settling dust test		N/A
8.5	External icing test	no external cavities to trap water	P
8.6	Hosedown test		N/A

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8.6.1	The enclosure and its external mechanisms shall be subjected to a stream of water from a hose that has a 25 mm inside diameter (1 inch inside diameter) nozzle that delivers at least 240 L per minute (65 gallons per minute). The water shall be directed at all joints from a distance of 3.0 – 3.5 m (10 – 12 feet). The nozzle shall be moved along each joint one time at an approximate rate of 6 mm/s (1/4 inch per second). A conduit may be installed to equalize internal and external pressures, but shall not serve as a drain		N/A
8.6.2	With respect to orientation of the nozzle to the enclosure, the nozzle or enclosure shall be moved at different points during the test such that each representative side containing a joint or seam and that is accessible to hose directed water in the enclosure's worst case intended installation and orientation unless otherwise specified in manufacturer's instructions is tested.		N/A
8.6.3	The enclosure shall be considered to have met the requirements if at the conclusion of the test no water has entered the enclosure.		N/A
8.7	Indoor corrosion protection		N/A
8.7.1	24-hour salt spray test		N/A
8.8	Outdoor corrosion protection	Comply with 7.2.3	P
8.8.1	600-hour salt spray test		N/A
8.8.2	1200-hour moist carbon dioxide-sulphur dioxide-air test		N/A
8.9	Additional corrosion protection for type 3X, 3RX, 3SX, 4X and 6P		N/A
8.9.1	200-hour salt spray test		N/A
8.10	Submersion test		N/A
8.11	Pressure test		N/A
8.11.1	Internal pressurization method		N/A
8.11.2	External pressurization method		N/A
8.12	Oil exclusion test		N/A
8.13	Gasket tests		N/A
8.13.1	General		N/A
8.13.1.1	The tests specified in Clauses 8.13.2 and 8.13.3 are applicable to gaskets employed on enclosure Types 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K, and 13. The test of Clause 8.13.4 is applicable to gaskets employed on enclosure Types 12, 12K, and 13.		N/A
8.13.2	Tensile strength and elongation tests		N/A

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8.13.2.1	Gasket material, if used in a Type 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K, or 13 enclosure, shall be of such quality that samples subjected to a temperature of 69 – 70°C (156 – 158°F) in circulating air for 168 hours have a tensile strength of not less than 75 percent and an elongation of not less than 60 percent of values determined for unaged samples. The test method shall be per Annex B, Ref. No. 11. At the conclusion of the tests, there shall be no visible deterioration, deformation, melting, or cracking of the material.		N/A
8.13.2.2	Alternately, gasket material of such quality that samples subjected to a temperature of 100°C (212° F) in circulating air for 70 hours that have a tensile strength of not less than 75 percent and an elongation of not less than 60 percent of values determined for unaged samples, and that have no visible deterioration, deformation, melting, or cracking of the material, and that have not hardened as determined by normal hand flexing, shall be considered to meet the requirements of Clause 8.13.2.1. The test method shall be per Annex B, Ref. No. 11.		N/A
8.13.3	Compression test		N/A
8.13.3.1	A set of three specimens of gasket material, if used in a Type 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K, or 13 enclosure, shall be tested to the requirements of Clauses 8.13.3.2 to 8.13.3.4 (see Figure 3). On completion of each test the specimen shall not show signs of deterioration or cracks that can be seen with normal or corrected vision.		N/A
8.13.3.2	A circular weight to apply 69 kPa (10 pounds per square inch) shall be placed on the middle portion of each specimen for a period of 2 hours. At the end of that time the weight shall be removed and the specimen allowed to rest at room temperature for 30 minutes. The thickness of the gasket shall then be determined and compared with a measurement obtained before the application of the weight. The compression set shall not exceed 50 percent of the initial thickness of the specimen.		N/A
8.13.3.3	Following the test specified in Clause 8.13.3.2, the specimens shall be suspended in an air oven at a temperature of 70°C (158°F) for a period of 5 days. The specimens shall then be tested for compliance with Clause 8.13.3.2, approximately 24 hours after removal from the oven.		N/A

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8.13.3.4	Following the test specified in Clause 8.13.3.3, the specimens shall be cooled to a temperature of minus 30°C (minus 22°F) for a period of 24 hours and then subjected to an impact from a hammer of 1.35 kg mass (2.98 pounds) falling from a height of 150 mm (6 inches). The hammer head shall be steel, 28.6 mm (1-1/8 inches) in diameter, and have a flat striking surface, 25.4 mm (1 inch) in diameter, with slightly rounded edges. The specimens being tested shall be placed on wooden pieces large enough to support all dimensions of the sample when being impacted. Following the impact the specimens shall be examined for evidence of cracking or other adverse effects. The test shall be continued and the specimens impacted every 24 hours for two more days. The specimens shall then be removed from the cold chamber, allowed to rest at room temperature for approximately 24 hours, and then tested for compliance with Clause 8.13.3.2.		N/A
8.13.4	Oil immersion test		N/A
8.14	Rod entry test		P
8.15	Misalignment test		P
8.16	Water exposure and immersion		N/A
8.17	Sealing compounds tests		N/A
9	Marking		P
9.1	General		P
9.2	Type designations		P
9.2.1	Enclosures shall be designated by the type number which is intended to indicate the environmental conditions for which they are suitable, for example, "Type _ Enclosure", or equivalent.		P
9.2.2	Enclosures that comply with the requirements for more than one type enclosure may be designated by a combination of type numbers, the lower number being given first.		P
9.2.3	Ventilated Type 1, 2, 3R, or 3RX enclosures in which the equipment to be installed is not known shall be marked to indicate the area in which live parts are to be installed.		P
9.3	Supplemental markings		P
	Enclosures may be additionally marked with the supplemental markings in Clauses 9.3.2 to 9.3.7. These are relative terms for reference purposes only and do not imply enclosure capabilities.		P
	A Type 3, 3X, 3S, 3SX, 4, 4X, 6, or 6P enclosure may be marked "Raintight".		N/A
	A Type 3R or 3RX enclosure may be marked "Rainproof".		P
	A Type 4, 4X, 6, or 6P enclosure may be marked "Watertight".		N/A

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	A Type 4X or 6P enclosure may be marked “Corrosion Resistant”.		N/A																																																																																																																																																																																																								
	A Type 2, 5, 12, 12K, or 13 enclosure may be marked “Driptight”.		N/A																																																																																																																																																																																																								
	A Type 3, 3X, 3S, 3SX, 5, 12, 12K, or 13 enclosure may be marked “Dusttight”.		N/A																																																																																																																																																																																																								
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	Table 1 Continued <table><tr><th rowspan="2">Provides a degree of protection against the following environmental conditions</th><th colspan="13">Type of enclosure</th></tr><tr><th>1</th><th>2</th><th>3</th><th>3X</th><th>3R</th><th>3RX</th><th>3S</th><th>3SX</th><th>4</th><th>4X</th><th>5</th><th>6</th><th>6P</th><th>12</th><th>12K</th><th>13</th></tr><tr><td>Rain, snow, and sleet^a</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Circulating dust, lint, fibers, and flyings^a</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>Settling airborne dust, lint, fibers, and flyings^a</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>Windblown dust</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td></tr><tr><td>Hosedown and splashing water</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td></tr><tr><td>Oil and coolant seepage</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td></tr><tr><td>Oil or coolant spraying and splashing</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr><tr><td>Corrosive agents</td><td></td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td><td></td><td>X</td><td></td><td></td><td></td></tr><tr><td>Occasional temporary submersion</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td></tr><tr><td>Occasional prolonged submersion</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td></tr></table> ^a External operating mechanisms are not required to be operable when the enclosure is ice covered. ^b External operating mechanisms are operable when the enclosure is ice covered. See Clause 8.5.2. ^c These fibers and flyings are nonhazardous materials and are not considered Class III type ignitable fibers or combustible flyings. (For Class III type ignitable fibers or combustible flyings, see the Canadian Electrical Code, Part I, Section 18, the National Electrical Code, Article 500, or Mexico's NOM-001-SEDE, Electrical Installations (utility), Article 500.	Provides a degree of protection against the following environmental conditions	Type of enclosure													1	2	3	3X	3R	3RX	3S	3SX	4	4X	5	6	6P	12	12K	13	Rain, snow, and sleet ^a							X	X									Circulating dust, lint, fibers, and flyings ^a			X	X			X	X	X	X		X	X	X	X	X	Settling airborne dust, lint, fibers, and flyings ^a			X	X			X	X	X	X	X	X	X	X	X	X	Windblown dust			X	X			X	X	X	X	X	X					Hosedown and splashing water									X	X		X					Oil and coolant seepage														X			Oil or coolant spraying and splashing																X	Corrosive agents				X		X		X		X			X				Occasional temporary submersion												X	X				Occasional prolonged submersion													X					-
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	<table><tr><th>Enclosure type</th><th>Applicable tests</th><th>Clause</th></tr><tr><td></td><td>Indoor corrosion protection</td><td>8.7</td></tr><tr><td></td><td>Gasket</td><td>8.13</td></tr><tr><td></td><td>Misalignment</td><td>8.15</td></tr><tr><td>6</td><td>External icing^d</td><td>8.5</td></tr><tr><td></td><td>Outdoor corrosion protection</td><td>8.8</td></tr><tr><td></td><td>Submersion^h</td><td>8.10</td></tr><tr><td></td><td>Gasket</td><td>8.13</td></tr><tr><td></td><td>Misalignment</td><td>8.15</td></tr><tr><td>6P</td><td>External icing^d</td><td>8.5</td></tr><tr><td></td><td>Outdoor corrosion protection</td><td>8.8</td></tr><tr><td></td><td>Additional corrosion protection</td><td>8.9</td></tr><tr><td></td><td>Pressure^g</td><td>8.11</td></tr><tr><td></td><td>Gasket</td><td>8.13</td></tr><tr><td></td><td>Misalignment</td><td>8.15</td></tr><tr><td>12, 12K</td><td>Indoor (circulating) dustⁱ</td><td>8.4.2.1</td></tr><tr><td></td><td>Indoor corrosion protection</td><td>8.7</td></tr><tr><td></td><td>Gasket</td><td>8.13</td></tr><tr><td></td><td>Misalignment</td><td>8.15</td></tr><tr><td>13</td><td>Indoor corrosion protection</td><td>8.7</td></tr><tr><td></td><td>Oil exclusion^j</td><td>8.12</td></tr><tr><td></td><td>Gasket</td><td>8.13</td></tr><tr><td></td><td>Misalignment</td><td>8.15</td></tr></table> ^a The drip test is intended to simulate dripping and light splashing of liquids; see Table 1. The drip test method A described in Clause 8.2.1 and method B described in Clause 8.2.2 are alternate drip test methods. ^b The rain test is intended to simulate falling rain; see Table 1. A device that meets the requirements of the Rain test also meets the requirements of the Drip test in Clause 8.2. ^c The outdoor dust test is intended to simulate windblown dust; see Table 1. The Dust blast method described in Clause 8.4.1.1 and the hose method described in Clause 8.4.1.2 are alternate outdoor dust tests. A device that meets the requirements of the Outdoor dust test also meets the requirements of the Circulating dust test in Clause 8.4.2.1, the Settling dust test in Clause 8.4.2.2, the Drip test in Clause 8.2, and the Rain test in Clause 8.3. ^d The indoor circulating dust test is intended to simulate an indoor industrial environment of circulating dust, lint, fibers, and flyings; see Table 1. This test, in conjunction with the oil-resistant gaskets of Type 12 and Type 12K devices, also demonstrates a degree of protection against light splashing and consequent seepage of oil and non-corrosive coolants. The dust method described in Clause 8.4.2.1.1 and the atomized water method (method A) described in Clause 8.4.2.1.2 are alternate circulating dust tests. A device that meets the requirements of the Indoor circulating dust test also meets the requirements of the Settling dust test, Clause 8.4.2.2, and the Drip test in Clause 8.2. ^e The settling dust test is intended to simulate an indoor industrial environment of settling airborne dust, lint, fibers, and flyings; see Table 1. The dust method described in Clause 8.4.2.2.1 and Atomized water method (method B) described in Clause 8.4.2.2.2 are alternate settling dust tests. A device that meets the requirements of the Settling dust test also meets the requirements of the Drip test in Clause 8.2. ^f The external icing test is intended to simulate freezing rain, sleet, and snow; see Table 1. A Type 3, 3X, 3R, 3RX, 4, 4X, 6, and 6P enclosure which has no external cavities to trap water when mounted in the normal position is not required to be subjected to the External icing test. ^g The hosedown test is intended to simulate a hosedown condition; see Table 1. A device that meets the requirements of the hosedown test also meets the requirements of the Drip test in Clause 8.2, Rain test in Clause 8.3, and Dust tests in Clause 8.4. ^h The submersion test is intended to simulate temporary submersion at a limited depth; see Table 1. A device that meets the requirements of the submersion test also meets the requirements of the Dust test, Clause 8.4, and the Hosedown test, Clause 8.6.	Enclosure type	Applicable tests	Clause		Indoor corrosion protection	8.7		Gasket	8.13		Misalignment	8.15	6	External icing ^d	8.5		Outdoor corrosion protection	8.8		Submersion ^h	8.10		Gasket	8.13		Misalignment	8.15	6P	External icing ^d	8.5		Outdoor corrosion protection	8.8		Additional corrosion protection	8.9		Pressure ^g	8.11		Gasket	8.13		Misalignment	8.15	12, 12K	Indoor (circulating) dust ⁱ	8.4.2.1		Indoor corrosion protection	8.7		Gasket	8.13		Misalignment	8.15	13	Indoor corrosion protection	8.7		Oil exclusion ^j	8.12		Gasket	8.13		Misalignment	8.15		-																																																												
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2.3 Photo



The front view



The right view



The left view



The rear view



Sample under test



Sample under test

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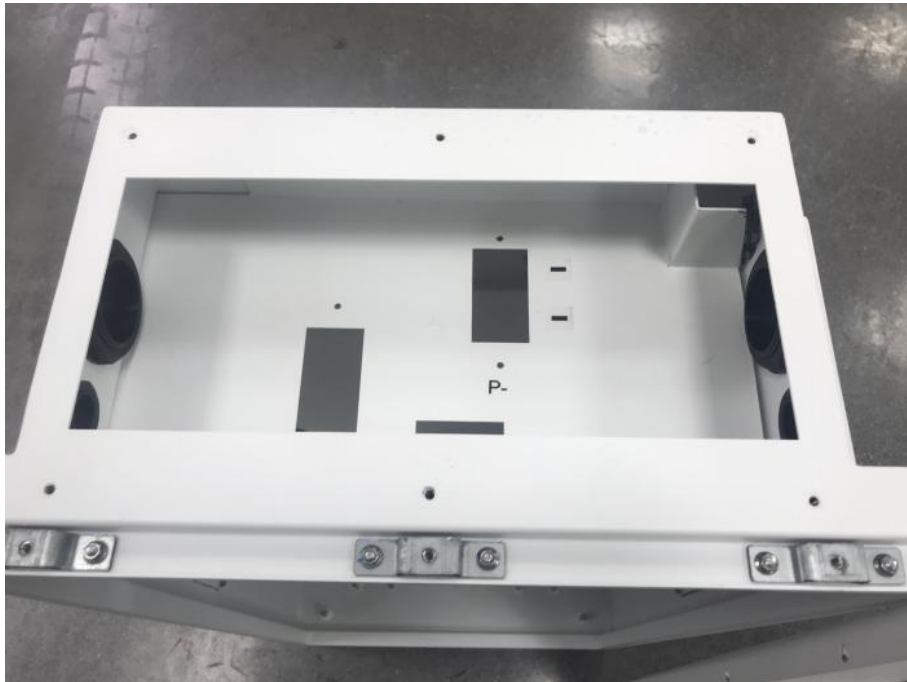
Sample under test



Sample after test

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Sample after test



Sample after test

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3 List of Test and Measurement Instruments

No.	Inst. ID No.	Instrument Type	Function/Range	Last Cal. Date	Next Cal. Date
1	Waterproof test system	IPX1-8, IPX4K, IPX6K	--	2026-02-28	2027-02-27
2	Steel tape measure	0-7.5m	0-7.5m	2026-03-30	2027-03-31
3	Electronic stopwatch	PC100D	--	2025-07-29	2026-07-28

End of Test Report