

STANDARD INFORMATION

If your product is certified to CSA LTR AE-002 then it needs to be recertified to CSA TIL No. A-41.

Withdrawn Standard:

Photovoltaic Tracking Systems [CSA LTR AE-002:2012]

Replacement Standard:

Photovoltaic Tracker [CSA TIL No. A-41:2021]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: September 1, 2023

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: CSA LTR AE-002 is being withdrawn and replaced by CSA TIL No. A-41. All reports currently certified to CSA LTR AE-002 need to be evaluated and certified to CSA TIL No. A-41 prior to the effective date. Due to the changes between standards, a full evaluation to CSA TIL No. A-41 is required.

See below for requirements of CSA TIL No. A-41.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
SCOPE		
1		These requirements apply to Photovoltaic Tracker systems intended for outdoor use with photovoltaic modules and panels. These requirements cover electrical shock, fire of the tracker and mechanical loading of the platform. The requirements do not cover the electrical output from the modules or panels.
2		Construction
.21		The electrical control systems shall comply with the requirement for Industrial Control Equipment, CSA C22.2 No. 14.
2.2		The Motor shall comply with the requirements for Motors and Generators, CSA C22.2 No. 100.
2.3		<p>The tracker shall be subjected to Clause 4.16 Static mechanical load test of CAN/CSA- IEC 61215-2 with below differences:</p> <p>a) The minimum required design load is 800 Pa, while the minimum test load is 1200Pa. b) Pre-test according to sequence E of IEC61215-1 is not needed. c) The 'Final measurements' of clause 4.16.4 and 'Requirements' of clause 4.16.5 in CAN/CSA- IEC 61215-2 are replaced with below requirements: No evidence of major defects which bring mechanical or electrical hazards or affect the mechanical integrity of the tracker. The electrical hazards may be checked by clause 6.8 Dielectric strength of CSA C22.2 No.14.</p> <p>Exception: Trackers need further mechanical load evaluation together with building code or on site evaluation. For these trackers, the static mechanical load test may be waived. But the installation manual there shall be a statement that the mechanical load need further evaluation before installation.</p>
2.4		Electrical enclosures and motors exposed to outdoor elements (rain, snow and ice) shall be constructed to comply with the requirements for Enclosures for Electrical Equipment, Environmental Considerations, CSA C22.2 No. 94.2.
2.5		Bonding and grounding shall comply with CSA C22.2 No.0.4.
2.6		For some parts of the Photovoltaic Trackers are utilized as the function of PV racking system, these parts shall comply with Technical Information Letter CSA A-40 Photovoltaic Module Racking Systems.



CLAUSE	VERDICT	COMMENT
		Markings
		Photovoltaic Trackers shall be plainly marked, in a permanent manner, in a place where the details will be readily visible after installation, with the following:
2.7		a) Registered trademark, trade name, manufacturer's name, or other recognized symbol of identification of the manufacturer; b) Catalogue or type number, or other mark used for distinguishing purposes; c) Electrical ratings; d) Suitable for outdoor use; e) Warnings related to safety hazards (when applicable).
		Requirements for Supplied Documents
		Photovoltaic Trackers shall be provided with installation instruction:
2.8		a) Describing the methods of installation and ratings of the tracker. b) The maximum size and number (if applicable) of modules or panels intended to be mounted; c) Designed load with the corresponding installation method or a statement of 'The mechanical load need further evaluation before installation.' or the equivalent. d) Warnings related to safety hazards (when applicable).