

Inverter Listing Request Procedure

All equipment listing requests and required documentation must be submitted by the Equipment Manufacturer. The process for adding or revising inverters on the list is as follows:

1. The manufacturer obtains product certification to UL 1741 (including UL 1741 Supplement A for grid support utility interactive inverters), from a Nationally Recognized Testing Laboratory (NRTL) whose Occupational Safety and Health Administration (OSHA) Scope of Recognition includes UL 1741.¹

Private labeling of inverters: Some manufacturers may wish to private label inverters for another manufacturer. Such products should be submitted with a Multiple Listee letter from the NRTL. The Multiple Listee letter is evidence of UL 1741 certification for the same inverters provided by multiple manufacturers.

2. The manufacturer obtains performance test data (Maximum Continuous Output Power [MCOP], Conversion Efficiency, and Tare Losses) and weighted inverter efficiency in accordance with “Performance Test Protocol for Evaluating Inverters Used in Grid-Connected Photovoltaic Systems”² from a NRTL that can perform UL 1741, including UL 1741 Supplement A for testing grid support utility interactive inverters. The weighted inverter efficiency data is used for incentive calculation purposes.
3. The manufacturer receives the test report and certification letter from a NRTL. The submitted test report must be signed by the NRTL, indicate the UL standard and Source Requirement Documents (SRDs) for the test, and specify the model number(s) for which this test report can be applied. The certification letter must be signed and stamped by a NRTL, indicate the specific model number(s) that are certified, and provide authorization to apply the NRTL’s mark (or equivalent).

For Alternating Current Photovoltaic (ACPV) modules only: The manufacturer must provide the Construction Data Report (CDR) that describes how the microinverter is attached to the PV module. If the microinverter is attached to the module backsheet with adhesive, obtain test results from a NRTL for securement, humidity-freeze, and temperature cycling tests with the microinverter adhered to the module backsheet.

4. The manufacturer fills out the [Weighted Inverter Efficiency Form](#) in Excel format, if applicable. The Rated Maximum Continuous Output Power value must be in kilowatts (kW) at unity power factor. The Night Tare Loss value must be in watts (W).
5. The manufacturer fills out the [Inverter Listing Request Form](#). In the “Notes” section at the end of the form, please provide any additional information to further explain or clarify the request.
6. The manufacturer emails the Inverter Listing Request Form with attached copies of NRTL Certification Letter(s), NRTL-certified Test Report(s), MCOP test data, Construction Data Report, the Excel file of the Weighted Inverter Efficiency Form(s), as applicable, and any other supporting documentation to SolarEquipment@energy.ca.gov. Please note that all submitted information are public records; do not submit any proprietary or confidential information.
 - a. Each email request should include a subject line stating which includes the purpose (new or revised request) and the equipment type (PV Module, Inverter, etc.) and the Manufacturer’s Name.
7. Depending on the nature of the request, the Energy Commission may require additional documentation to verify new or revised information. For example, to change a currently listed Manufacturer Name, provide a letter on company letterhead that is signed by an

authorized manufacturer's representative which clearly identifies both the old and new names, and also explains the reason for the name change.

8. If the inverter has an approved built-in meter that meets the metering requirements, please submit a request to add the meter to the Meter List.

The Inverter List is updated monthly during the first week of the month. The deadline for requests is the last day of each month; all documentation must be submitted in one email request before this date to be reviewed during the following month.

1 The [current list of NRTLs with OSHA scopes](#)

2 [Sandia Lab test protocol](#)