



PCS Certificate of Compliance

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Project #Z0651
Report #LIT12250651

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Subject: UL3141 PCS Load Control for EV Charging systems

Dear Mr. Baligar

This test report represents the results of our evaluation/testing of the Electric Vehicle Charging system to the requirements contained in following standards:

UL3141 Outline of Investigation for Power Control Systems (PCS), Issue 2, dated Oct 9th, 2024

Compliance includes controlling and limiting the per-phase current imported from the Point of Common Coupling (PCC) to the grid (or) Point of Connection (PoC) like the input to a subpanel by controlling the Electric Vehicle charging system.

The PCS evaluation was conducted on a representative Enphase IQ EVSE 2 System and the certification applies to the following configurations which were part of the tested system in the PCS modes defined below.

PCS Modes	EV Charging Model ²	Max EV Charger Ratings	Additional Devices needed for PCS Functionality	Optional Devices	Maximum breaker rating for PCS- LC limiting	Measured Average/ Maximum Settling time
PCS Load Control for EV Charging systems ¹	IQ EVSE 2	80A/ 19.20kVA	IQ Combiner 6C ³ / CTs / Meter Collar	PV/ESS System ²	240A ⁴	16.41s/ 19.70s

¹ Tested with PCS FW v1.4.0 and EVSE FW v25.41.20.18.

² For full list of SKUs, please see table in the next page.

³ When landing in the Combiner 6C EVSE breaker spot, the EV breaker value is limited to 60A.

⁴ Breaker rating for PCS-LC cannot be lower than the IQ EVSE Nameplate breaker.

PCS Load Control for EV Charging systems:

This is a PCS mode where the system was evaluated for its ability to control currents being drawn by the EV charging system by monitoring the current imported at the PCC like the grid (or) PoC like the input to a subpanel. The testing verified that when system load levels were subjected to step changes, the total current being drawn by the EV charging system did not exceed the limit set beyond the response time mentioned in the table. In the event of a failure, the EV charging system will limit itself to 6A.

The table below describes the System configuration and SKUs associated with tested PCS mode(s)

System Component	Product SKUs	Equipment required in PCS mode?
IQ EVSE 2	IQ-EVSE-NA-1XXX-BCDE-1G2I-X ¹	Required
Enphase IQ Combiner 6C	X-IQ-AM1-240-6C	Required
CTs ²	For monitoring: At least 2 units of CT-200-SPLIT or CT-200-CLAMP	Required
Meter Collar ²	For Monitoring consumption: At least 1 unit of MC-200-011-VXX	Required ¹

¹Product SKU wildcards of XXX, B,C,D,E, G,I are not related to PCS functionality

²Either Meter Collar (OR) Consumption CTs placed at the Point of Common Coupling (PCC) is required for operation in this mode. Both are not required

*Other components like PV, ESS, may be optionally present but are not required for operation.

If there are any questions regarding the results contained in this report, please contact me or any Bureau Veritas CPS customer service representative.

Sincerely,

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