Enphase Energy IQ Meter Socket Adapter (MC-200-011-V01-2)
Usage Requirements and Connections to PSE&G – 11/24/2026

The Enphase Energy IQ Meter Socket Adapter (MSA) with an integrated microgrid interconnection device (MID, isolation switch), prevents back feed to the grid during a grid outage when the battery is providing backup power (supports islanding). The IQ MSA incorporates factory-installed current transformers (CTs) for energy monitoring.

Attributes

- This document covers the Enphase Energy IQ MSA, Ordering SKU: MC-200-011-V01-2
- Adapter shall withstand thermal cycling, insertion forces, and short-circuit stresses consistent with meter-mounted equipment and shall maintain proper socket jaw alignment and tension.

Unique installation Requirements for the Enphase IQ MSA

- This device is intended for use on 120/240-volt, single-phase services with sockets rated from 60A up to 200 A. Not for use on 120/208 volt services.
- The Enphase Energy IQ MSA is designed for use with a Form 2S meter only. Current and voltage signals will pass from the socket to the meter.
- Adapters may only be installed in meter sockets supporting 3-wire, single phase, electric service and shall not be used on 320A sockets.
- A minimum working clearance of 45 inches shall be maintained in front of the meter socket location.
- The max continuous current rating of the Enphase IQ MSA is 200A
- Flexible communication cable is attached to the bottom of the adapter. It may not block access to other equipment or a second meter position in meter socket.

General Requirements for Installation of MSA

- Installation must be performed by qualified personnel following all applicable safety protocols and PPE requirements.
- Installation is subject to approval by both PSE&G and the Authority Having Jurisdiction (AHJ).
- Oxide-inhibiting compound or lubricant shall not be applied to meter jaws or meter terminals.
- Insulation of Service conductor attached to meter socket jaws, shall be intact without signs of overheating or deterioration.
- Meter socket and associated mounting hardware shall be structurally sound and firmly secured.
- Adapter shall not be used on Conventional Underground services (120/208-volt, network feed from multiple transformers with network protectors) or any service configuration where fault current exceeds its rating.
- Only one meter adapter may be installed behind any meter.
- Socket jaw pressure on meter blades must meet requirements to support heat transfer away from the meter and socket adapter.
- Adapter installation must not interfere with meter replacement, socket access, or PSE&G locking provisions.
- Device may not be installed where the customer has opted out of participation in the Advanced Metering Infrastructure (AMI) program.

Integration and System Capabilities

Integrated CTs in products of an Enphase Energy System provide continuous monitoring of PV generation, battery performance, load consumption, and optional monitored loads such as electric vehicle chargers, as applicable. These CTs allow the Power Control System (PCS) feature of an Enphase Energy System to manage back feed limits and load priorities without additional field-installed sensors.

When paired with Enphase Power Control, and configured Power Control System (PCS) features, the Enphase MSA allows installation of large solar and storage systems while maintaining compliance with main-panel busbar limits and power export limits to the grid, as applicable. When configured, the system can dynamically control DER output to remain within allowable back feed constraints.