

Enphase IQ 6 and IQ 6+ Microinverters

The high-powered smart grid-ready **Enphase IQ 6 Micro™** and **Enphase IQ 6+ Micro™** dramatically simplify the installation process while achieving the highest efficiency for module-level power electronics.

Part of the Enphase IQ System, the IQ 6 and IQ 6+ Micro integrate seamlessly with the Enphase IQ Envoy™, Enphase Q Aggregator™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

The IQ 6 and IQ 6+ Micro extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with fixed power factor, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 6+ Micro is required to support 72-cell modules

Enphase IQ 6 and IQ 6+ Microinverters

| INPUT DATA (DC) | IQ6-60-2-US | | IQ6PLUS-72-2-US | |
|---|--|-------------------|--------------------------------|-------------------|
| Commonly used module pairings¹ | 195 W - 330 W + | | 235 W - 400 W + | |
| Module compatibility | 60-cell PV modules only | | 60-cell and 72-cell PV modules | |
| Maximum input DC voltage | 48 V | | 62 V | |
| Peak power tracking voltage | 27 V - 37 V | | 27 V - 45 V | |
| Operating range | 16 V - 48 V | | 16 V - 62 V | |
| Min/Max start voltage | 22 V / 48 V | | 22 V / 62 V | |
| Max DC short circuit current (module Isc) | 15 A | | 15 A | |
| Overvoltage class DC port | II | | II | |
| DC port backfeed under single fault | 0 A | | 0 A | |
| PV array configuration | 1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit | | | |
| OUTPUT DATA (AC) | IQ 6 Microinverter | | IQ 6+ Microinverter | |
| Peak output power | 240 VA | | 290 VA | |
| Maximum continuous output power | 230 VA | | 280 VA | |
| Nominal (L-L) voltage/range² | 240 V / 211-264 V | 208 V / 183-229 V | 240 V / 211-264 V | 208 V / 183-229 V |
| Maximum continuous output current | 0.96 A | 1.11 A | 1.17 A | 1.35 A |
| Nominal frequency | 60 Hz | | 60 Hz | |
| Extended frequency range | 47 - 68 Hz | | 47 - 68 Hz | |
| Power factor at rated power | 1.0 | | 1.0 | |
| Maximum units per 20 A (L-L) branch circuit | 16 (240 VAC) | | 13 (240 VAC) | |
| | 14 (208 VAC) | | 11 (208 VAC) | |
| Overvoltage class AC port | III | | III | |
| AC port backfeed under single fault | 0 A | | 0 A | |
| Power factor (adjustable) | 0.7 leading ... 0.7 lagging | | 0.7 leading ... 0.7 lagging | |
| EFFICIENCY | @240 V | @208 V | @240 V | @208 V |
| CEC weighted efficiency | 97.0 % | 97.0 % | 97.0 % | 97.0 % |

| MECHANICAL DATA | |
|---|---|
| Ambient temperature range | -40°C to +65°C |
| Relative humidity range | 4% to 100% (condensing) |
| Connector type | MC4 locking type |
| Dimensions (WxHxD) | 219 mm x 191 mm x 37.9 mm (without bracket) |
| Weight | 1.29 kg (2.84 lbs) |
| Cooling | Natural convection - No fans |
| Approved for wet locations | Yes |
| Pollution degree | PD3 |
| Enclosure | Class II double-insulated |
| Environmental category / UV exposure rating | NEMA Type 6 / outdoor |

| FEATURES | |
|---------------------|---|
| Communication | Power line |
| Monitoring | Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy |
| Disconnecting means | The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690. |
| Compliance | CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions. |

1. No enforced DC/AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>.
2. Nominal voltage range can be extended beyond nominal if required by the utility.

To learn more about Enphase offerings, visit enphase.com

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2018-01-25

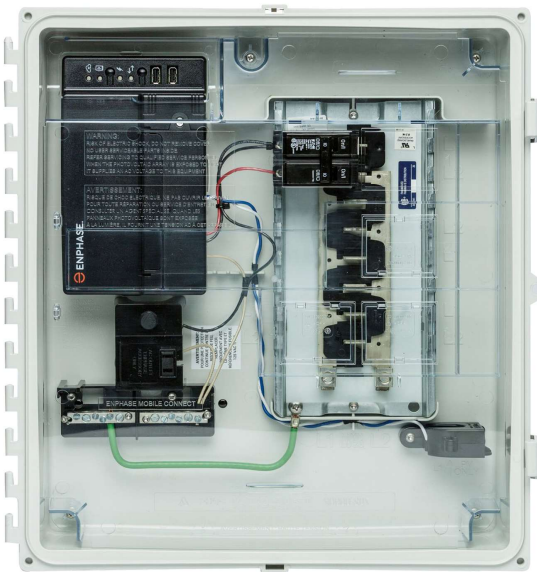


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Enphase IQ Combiner+ (X-IQ-AM1-240-2)

The **Enphase IQ Combiner+™** with Enphase IQ Envoy™ consolidates interconnection equipment into a single enclosure and streamlines PV and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.



Smart

- Includes IQ Envoy for communication and control
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- Provides production metering and optional consumption monitoring
- Supports installation of the Enphase Q Aggregator™

Simple

- Eaton BR series panelboard interior
- Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80 A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- Five-year warranty
- UL listed

Enphase IQ Combiner+

| MODEL NUMBER | |
|---|--|
| IQ Combiner+ X-IQ-AM1-240-2 | IQ Combiner+ with Enphase IQ Envoy™ for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and optional* consumption monitoring (+/- 2.5%). |
| ACCESSORIES (order separately) | |
| Enphase Mobile Connect™ CELLMODEM-03 (4G / 12-year data plan) CELLMODEM-01 (3G / 5-year data plan) CELLMODEM-M1 (4G LTE CAT-M1 / 5-year data plan) | Plug and play industrial grade cellular modem with data plan for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.) |
| Consumption Monitoring CT CT-200-SPLIT | Split core current transformers enable whole home consumption metering* (+/- 2.5%). |
| Circuit Breakers BRK-15A-2-240 BRK-20A-2-240 | Breaker, 2 pole, 15A, Eaton BR215 Breaker, 2 pole, 20A, Eaton BR220 |
| ELECTRICAL SPECIFICATIONS | |
| Rating | Continuous duty |
| System voltage | 240 VAC, 60 HZ |
| Eaton BR series busbar rating | 125 A |
| Max. continuous current rating (output to grid) | 65 A |
| Max. fuse/circuit rating (output) | 90 A |
| Branch circuits (solar and/or storage) | Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included) |
| Max. continuous current rating (input from PV) | 64 A |
| Max. total branch circuit breaker rating (input) | 80 A (any combination) |
| Production Metering CT | 200 A solid core pre-installed and wired to IQ Envoy |
| MECHANICAL DATA | |
| Dimensions (WxHxD) | 49.3 x 46.5 x 16.0 cm (19.4" x 18.3" x 6.3") |
| Weight | 7.5 kg (16.5 lbs) |
| Ambient temperature range | -40° C to +46° C (-40° to 115° F) |
| Cooling | Natural convection, plus heat shield |
| Enclosure environmental rating | Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction |
| Wire sizes | <ul style="list-style-type: none">• 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors• 60 A breaker branch input: 3 to 1/0 AWG copper conductors• Main lug combined output: 10 to 2/0 AWG copper conductors• Neutral and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductor sizing. |
| Altitude | To 2000 meters (6,560 feet) |
| INTERNET CONNECTION OPTIONS | |
| Integrated Wi-Fi | 802.11b/g/n |
| Ethernet | 802.3, Cat5E (or Cat 6) UTP Ethernet cable - not included |
| Cellular | Optional, CELLMODEM-01 (3G) or CELLMODEM-03 (4G) (not included) |
| COMPLIANCE | |
| Compliance, Combiner | UL 1741 CAN/CSA C22.2 No. 107.1 47 CFR, Part 15, Class B, ICES 003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production) |
| Compliance, IQ Envoy | UL 916 CAN/CSA C22.2 No. 61010-1 |

* Consumption monitoring is required for Enphase Storage Systems.

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2018-05-02