Data Sheet Enphase Microinverters Region: APAC

Enphase IQ 7A Microinverter

The high-powered smart grid-ready **Enphase IQ 7A Micro**[™] dramatically simplifies the installation process while achieving the highest system efficiency for systems with 60-cell / 120-halfcell and 72-cell / 144-half-cell modules.

Part of the Enphase IQ System, the IQ 7A Micro integrates with the Enphase Envoy-S[™], Enphase IQ Battery[™], and the Enphase Enlighten[™] monitoring and analysis software.

The IQ Series Microinverters 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.



High Power

• Peak output power 366 VA

Easy to Install

- Lightweight and simple
- · Faster installation with improved, lighter two-wire cabling
- · Built-in rapid shutdown compliant

Efficient and Reliable

- Optimized for high powered 60-cell / 120-half-cell and 72-cell / 144-half-cell modules
- Highest EU efficiency of 96.5%
- More than a million hours of testing
- Class II double-insulated IP67 enclosure

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ridethrough requirements
- Envoy and Internet connection required
- Configurable for varying grid profiles



Enphase IQ 7A Microinverter

| Commonly used module pairings1 295 W-460 W + Module compatibility 60-cell / 120-half-cell and 72-cell / 144-half-cell modules Maximum input DC voltage 58 V PV input operating voltage range2 18 V-58 V Min/Max start voltage 33 V / 58 V Max DC short circuit current (module lsc)3 15 A Overvoltage class DC port II DC port backfeed current 0 A OUTPUT (AC) | | IQ7A-72-2-INT | | |
|--|--|--|--|--|
| Maximum input DC voltage58 VPV input operating voltage range218 V-58 VMin/Max start voltage33 V / 58 VMax DC short circuit current (module Isc)315 AOvervoltage class DC portIIDC port backfeed current0 AOUTPUT (AC)IIPeak output power366 VAMaximum continuous output power349 VANominal (L-N) voltage/range4230 V / 219-264 VMaximum continuous output current1.52 ANominal frequency50 HzExtended frequency range45-55 HzAC short circuit fault current over 3 cycles5.8 ArmsMaximum units per 20 A (L-N) branch circuit511 (single-phase)Over backfeed current18 mAPower factor setting1.0Power factor setting1.0Power factor setting0.8 leadingEN 50530 (EU) weighted efficiency96.5 %MECHANICALMaximum alitudeAmbient temperature range-40°C to +60°CRelative humidity range4% to 100% (condensing)Maximum alitude2000 mDC connector typeBulkhead with MC4 locking type connectorDimensions (HxWxD)212 mm x 175 mm x 30.2 mm (without bracket)Weight1.08 kg (2.38 lbs) | Module compatibility | | | |
| PV input operating voltage range ² 18 V-58 V Min/Max start voltage 33 V / 58 V Max DC short circuit current (module isc) ³ 15 A Overvoltage class DC port II DC port backfeed current 0 A OUTPUT (AC) | | | | |
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| Relative humidity range4% to 100% (condensing)Maximum altitude2000 mDC connector typeBulkhead with MC4 locking type connectorDimensions (HxWxD)212 mm x 175 mm x 30.2 mm (without bracket)Weight1.08 kg (2.38 lbs) | MECHANICAL | | | |
| Maximum altitude2000 mDC connector typeBulkhead with MC4 locking type connectorDimensions (HxWxD)212 mm x 175 mm x 30.2 mm (without bracket)Weight1.08 kg (2.38 lbs) | Ambient temperature range | -40°C to +60°C | | |
| DC connector typeBulkhead with MC4 locking type connectorDimensions (HxWxD)212 mm x 175 mm x 30.2 mm (without bracket)Weight1.08 kg (2.38 lbs) | Relative humidity range | 4% to 100% (condensing) | | |
| Dimensions (HxWxD)212 mm x 175 mm x 30.2 mm (without bracket)Weight1.08 kg (2.38 lbs) | Maximum altitude | 2000 m | | |
| Weight 1.08 kg (2.38 lbs) | DC connector type | | | |
| | Dimensions (HxWxD) | | | |
| Cooling Natural convection Nation | Weight | 1.08 kg (2.38 lbs) | | |
| Natural convection – No Tans | Cooling | Natural convection – No fans | | |
| Approved for wet locations Yes | Approved for wet locations | | | |
| Pollution degree PD3 | Pollution degree | PD3 | | |
| Enclosure Class II double-insulated, corrosion resistant polymeric enclosure | Enclosure | Class II double-insulated, corrosion resistant polymeric enclosure | | |
| Environmental category / UV exposure rating Outdoor - IP67 | Environmental category / UV exposure rating | Outdoor - IP67 | | |
| FEATURES | | | | |
| Communication Power Line Communication (PLC) | FEATURES | Power Line Communication (PLC) | | |
| Monitoring Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-S | | | | |
| Compliance AS/NZS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2, EN 50549, G98/G99, VDE-AR-N-4105 | Communication | | | |

1. No enforced DC/AC ratio. See the compatibility calculator at https://enphase.com/en-au/support/module-compatibility.

EU peak power tracking voltage range is 38 V to 43 V.
Maximum continuous input DC current is 10.2A.
Voltage range can be extended beyond nominal if required by the utility.

5. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com/au

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Data Sheet Enphase Microinverters Region: APAC

Enphase IQ 7, IQ 7+, and IQ 7X Microinverters

with EN4 bulkhead

The high-powered smart grid-ready **Enphase IQ Series Micros**[™] with Enphase EN4 bulkhead dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7, IQ 7+, and IQ 7X Microinverters integrate with the Enphase Envoy-S[™], and the Enphase Enlighten[™] monitoring and analysis software.

The IQ Series Microinverters 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.



Easy to Install

- Lightweight and simple
- · Faster installation with improved, lighter two-wire cabling
- Integrated Enphase EN4 bulkhead may allow for direct connection to PV modules

Productive and Reliable

- Optimized for high powered 60-cell, 72-cell* and 96-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- * The IQ 7+ Microinverter is required to support 72-cell modules, and the IQ 7X is required to support 96-cell modules.





Enphase IQ 7, IQ 7+, and IQ 7X Microinverters with EN4 bulkhead

| INPUT DATA (DC) | IQ7-60-E-INT | IQ7PLUS-72-E-INT | IQ7X-96-E-INT | |
|--|---|---------------------------------|---------------------------------|--|
| Commonly used module pairings | 235 W - 350 W + 1 | 235 W - 440 W + ^{1, 2} | 320 W - 460 W + ^{1, 2} | |
| Module compatibility | 60-cell PV modules only | 60-cell & 72-cell PV modules | 96-cell PV modules only | |
| Maximum input DC voltage | 48 V | 60 V | 79.5 V | |
| Peak power tracking voltage | 27 V - 37 V | 27 V - 45 V | 53 V - 64 V | |
| Operating range | 16 V - 48 V | 16 V - 60 V | 25 V - 79.5 V | |
| Min/Max start voltage | 22 V / 48 V | 22 V / 60 V | 33 V / 79.5 V | |
| Max DC short circuit current (module lsc) | 15 A | 15 A | 10 A | |
| Overvoltage class DC port | 11 | II | II | |
| DC port backfeed under single fault | 0 A | 0 A | 0 A | |
| OUTPUT DATA (AC) | IQ 7 Microinverter | IQ 7+ Microinverter | IQ 7X Microinverter | |
| Peak output power | 250 VA | 295 VA | 320 VA | |
| Maximum continuous output power | 240 VA | 290 VA | 315 VA | |
| Nominal (L-N) voltage/range ³ | 230 V / 184-276 V | 230 V / 184-276 V | 230 V / 184-276 V | |
| Maximum continuous output current | 1.04 A | 1.26 A | 1.37 A | |
| Nominal frequency | 50 Hz | 50 Hz | 50 Hz | |
| Extended frequency range | 45 - 55 Hz | 45 - 55 Hz | 45 - 55 Hz | |
| Maximum units per 20 A (L-N) branch circuit ⁴ | 16 (230 VAC) | 13 (230 VAC) | 12 (230 VAC) | |
| Overvoltage class AC port | | 111 | III | |
| AC port backfeed current | 18mA | 18mA | 18mA | |
| Power factor setting | 1.0 | 1.0 | 1.0 | |
| Power factor (adjustable) | 0.8 leading 0.8 lagging | 0.8 leading 0.8 lagging | 0.8 leading 0.8 lagging | |
| EFFICIENCY | @230 V | @230 V | @230 V | |
| EN 50530 (EU) weighted efficiency | 96.5 % | 96.5 % | 96.5 % | |
| MECHANICAL DATA | | | | |
| Ambient temperature range | -40°C to +65°C | -40°C to +65°C | -40°C to +60°C | |
| Relative humidity range | 4% to 100% (condensing) | | | |
| Connector type | Enphase EN4 bulkhead with integrated TE Connectivity PV4-S DC connectors | | | |
| Dimensions (HxWxD) | 212 mm x 175 mm x 30.2 mm (without bracket) | | | |
| Weight | 1.08 kg | | | |
| Cooling | Natural convection - No fans | | | |
| Approved for wet locations | Yes | | | |
| Pollution degree | PD3 | | | |
| Enclosure | Class II double-insulated, corrosion resistant polymeric enclosure | | | |
| Environmental category / UV exposure rating | Outdoor - IP67 | | | |
| FEATURES | | | | |
| Communication | Power Line Communication (PLC) | | | |
| Monitoring | Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase Envoy-S. | | | |
| Compliance | AS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2 | | | |
| | | | | |

1. No enforced DC/AC ratio in NZ. In Australia, CEC design guidelines state inverter continuous AC power output cannot be less than 75% of the array peak power.

Maximum DC input limited to 350 W at 25°C as per AU/NZS 5033:2014 4.3.12(d).
Nominal voltage range can be extended beyond nominal if required by the utility.
Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com/au

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