Data Sheet Enphase Microinverters Region: EUROPE

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 pairings ¹ 295 W-460 W + Module compatibility 60-cell / 120-half-cell and 72-cell / 144-half-cell modules Maximum input operating voltage range ³ 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 backfed current 0 A OUTPUT (AC)	INPUT (DC)	IQ7A-72-2-INT
Maximum input DC voltage58 VPV input operating voltage range*18 V-58 VMin/Max start voltage33 V / 58 VMax DC short circuit current (module lac)*15 AOvervoltage class DC portIIDC port back/feed current0 AOUTPUT (AC)Peak output power366 VAMaximum continuous output power349 VANominal (L-N) voltage/range*200 V / 219-264 VMaximum continuous output current1.52 ANominal Fequency50 HzExtended frequency range45-55 HzAC short circuit fault current over 3 cycles5.8 ArmsMaximum inits per 20 A (L-N) branch circuit11 (Ph+N)Overvoltage class AC portIIIPower factor setting10Power factor setting1.0Power factor setting9.65 % EFFCIECKY EEN 50530 (EU) weighted efficiency9.65 %Maximum altitude2000 mConnector typeBulkhead with MC4 locking type connectorDimensions (HxWxD)212 mm x175 mm x30.2 mm (without bracket)Weight1.08 (g.0.38 lbs)CoolingNatural convection – No fansApproved for wet locationsYesPollotion degreePD3EnclosureClass II double-insulated, corrosion resistant polymeric enclosureErivrommeriat category / UV exposure ratinPower factor (PCC)CommunicationPower factor (PCC)FurturesClass II double-insulated, Corrosion resistant polymeric enclosureEnvironmeriat catego	Commonly used module pairings ¹	295 W-460 W +
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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)	Maximum input DC voltage	58 V
Max DC short circuit current (module Isc) ³ 15 Å Overvoltage class DC port II DC port backfeed current 0 Å OUTPUT (AC) Peak output power Maximum continuous output power 349 VA Maximum continuous output power 349 VA Maximum continuous output current 1.52 A Nominal (LN) voltage/range ⁴ 230 V / 219-264 V Maximum continuous output current 1.52 A Nominal frequency range 45-55 Hz AC short circuit fault current over 3 cycles 5.8 Arms Maximum units per 20 A (L-N) branch circuit ¹ 11 (Ph+N) Overvoltage class AC port III AC port backfeed current 18 mA Power factor cellujustable) 0.8 leading 0.8 lagging EFFICIENCY E EN 5030 (EU) weighted efficiency 9.6 %. Maximum altitude 2000 m DC connector type Bulkhead with MC4 locking type connector Dimensions (HxWxD) 212 mm x 175 mm x 30.2 mm (without bracket) Weight 0.8 kg 23 lbo) Cooling Natural convection – No fans </td <td>PV input operating voltage range²</td> <td>18 V-58 V</td>	PV input operating voltage range ²	18 V-58 V
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OUTPUT (AC) Peak output power 366 VA Maximum continuous output power 349 VA Maximum continuous output current 1.52 A Nominal (L-N) voltage/range* 230 V / 219–264 V Maximum continuous output current 1.52 A Nominal frequency 50 Hz Extended frequency range 45–55 Hz AC short circuit fault current over 3 cycles 5.8 Arms Maximum units per 20 A (L-N) branch circuit* 11 (Ph+N) Overvoltage class AC port III AC port backfeed current 18 mA Power factor setting 1.0 Power factor setting 1.0 Power factor setting 0.8 leading EFFICIENCY E EN 50530 (EU) weighted efficiency 96.5 % MECHANICAL Abient temperature range Adv°C to +60°C Relative humidity range Relative humidity range 4% to 100% (condensing) Maximum altitude 2000 m DC connector type Bulkhead with MC4 locking type connector Dimensions (HxWxD) 212 mm x 175 mm x 30.2 mm (without bracket)	Overvoltage class DC port	
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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)CoolingNatural convection – No fansApproved for wet locationsYesPollution degreePD3EnclosureClass II double-insulated, corrosion resistant polymeric enclosureEnvironmental category / UV exposure ratingOutdoor - IP67CommunicationMonitoringPower Line Communication (PLC)MonitoringEnlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-SComplianceAS/NZS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2, EN 50549,	MECHANICAL	
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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)CoolingNatural convection – No fansApproved for wet locationsYesPollution degreePD3EnclosureClass II double-insulated, corrosion resistant polymeric enclosureEnvironmental category / UV exposure ratingOutdoor - IP67FEATURESEnvironmental category / UV exposure ratingCommunicationPower Line Communication (PLC)MonitoringEnlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-SComplianceAS/NZS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2, EN 50549,	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)CoolingNatural convection – No fansApproved for wet locationsYesPollution degreePD3EnclosureClass II double-insulated, corrosion resistant polymeric enclosureEnvironmental category / UV exposure ratingOutdoor - IP67FEATURESCommunicationPower Line Communication (PLC)MonitoringEnlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-SComplianceAS/NZS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2, EN 50549,	Maximum altitude	2000 m
Weight1.08 kg (2.38 lbs)CoolingNatural convection – No fansApproved for wet locationsYesPollution degreePD3EnclosureClass II double-insulated, corrosion resistant polymeric enclosureEnvironmental category / UV exposure ratingOutdoor - IP67FEATURESCommunicationPower Line Communication (PLC)MonitoringEnlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-SComplianceAS/NZS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2, EN 50549,	DC connector type	Bulkhead with MC4 locking type connector
CoolingNatural convection – No fansApproved for wet locationsYesPollution degreePD3EnclosureClass II double-insulated, corrosion resistant polymeric enclosureEnvironmental category / UV exposure ratingOutdoor - IP67FEATURESCommunicationPower Line Communication (PLC)MonitoringEnlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-SComplianceAS/NZS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2, EN 50549,	Dimensions (HxWxD)	212 mm x 175 mm x 30.2 mm (without bracket)
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Pollution degreePD3EnclosureClass II double-insulated, corrosion resistant polymeric enclosureEnvironmental category / UV exposure ratingOutdoor - IP67FEATURESCommunicationCommunicationPower Line Communication (PLC)MonitoringEnlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-SComplianceAS/NZS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2, EN 50549,	Cooling	Natural convection – No fans
Enclosure Class II double-insulated, corrosion resistant polymeric enclosure Environmental category / UV exposure rating Outdoor - IP67 FEATURES Communication Monitoring 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,	Approved for wet locations	Yes
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FEATURES Communication 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,	Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure
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MonitoringEnlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-SComplianceAS/NZS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2, EN 50549,	FEATURES	
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,	Communication	Power Line Communication (PLC)
	Monitoring	
	Compliance	

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

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