# Enphase IQ 6 and IQ 6+ Microinverters

Designed for higher powered modules, the smart gridready Enphase IQ 6 Micro™ and Enphase IQ 6+ Micro™ are built on the sixth-generation platform and achieve the highest efficiency for module-level power electronics and reduced cost per watt.

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

The IQ 6 and IQ 6+ Micro are very reliable as they have fewer parts and undergo over 1 million hours of testing. Enphase provides an industry-leading warranty of up to 25 years.



### Easy to Install

- Lightweight
- · Simple cable management
- Built-in rapid shutdown (NEC 2014)

### Productive

- · Optimized for high powered modules
- Supports 60 and 72-cell modules
- · Maximizes energy production

## 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



# Enphase IQ 6 and IQ 6+ Microinverters

INPUT DATA (DC)         IQ 6           Commonly used module pairings¹         195 W - 300 W + 235 W - 400 W + 400 W + 400 M + 400					
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         15 A         15 A           OUTPUT DATA (AC)         10 6         10 6+           Peak output power         240 VA         290 VA           Maximum continuous output power         230 VA         280 VA           Nominal voltage/range²         240 V / 211-264 V         208 V / 183-229 V         240 V / 211-264 V         208 V / 183-229 V           Nominal frequency         60 Hz         60 Hz         1.0 T         1.35 A           Extended frequency range         47 - 68 Hz         47 - 68 Hz         47 - 68 Hz           Power factor at rated power         1.0         1.0         1.0           Maximum units per 20 A branch circuit         16         13         1.0           Power factor (adjustable)         1 / 0.7 leading 0.7 lags ing         1 / 0.7 leading 0.7 lead	INPUT DATA (DC)	IQ 6		IQ 6+	
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         15 A         15 A           OUTPUT DATA (AC)         10 6         10 6+           Peak output power         240 VA         290 VA           Maximum continuous output power         230 VA         280 VA           Nominal voltage/frange²         240 V / 211-264 V         208 V / 183-229 V         240 V / 211-264 V         208 V / 183-229 V           Nominal frequency         60 Hz         50 Hz         50 Hz         50 Hz           Extended frequency range         47 - 68 Hz         60 Hz	Commonly used module pairings <sup>1</sup>	195 W - 300 W +		235 W - 400 W +	
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         15 A         15 A           OUTPUT DATA (AC)         1Q 6         IQ 6+           Peak output power         240 VA         290 VA           Maximum continuous output power         230 VA         280 VA           Nominal output current         0.96 A         1.11 A         1.17 A         1.35 A           Nominal output current         0.96 A         1.11 A         1.17 A         1.35 A           Nominal frequency         60 Hz         60 Hz         60 Hz         60 Hz           Extended frequency range         47 - 68 Hz         47 - 68 Hz         7 - 68 Hz         1.0 </td <td>Module compatibility</td> <td colspan="2">60-cell PV modules only</td> <td colspan="2">60-cell and 72-cell PV modules</td>	Module compatibility	60-cell PV modules only		60-cell and 72-cell PV modules	
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         15 A         15 A           OUTPUT DATA (AC)         10 6         10 6+           Peak output power         240 VA         290 VA           Maximum continuous output power         230 VA         280 VA           Nominal voltage/range²         240 V / 211-264 V         208 V / 183-229 V         240 V / 211-264 V         208 V / 183-229 V           Nominal output current         0.96 A         1.11 A         1.17 A         1.35 A           Nominal frequency         60 Hz         60 Hz         60 Hz         60 Hz           Extended frequency range         47 - 68 Hz         47 - 68 Hz         7 - 68 Hz         1.0         1.0         1.0         1.0         1.0         Maximum units per 20 A branch circuit         16         13         18         1.0	Maximum input DC voltage	48 V		62 V	
Min/Max start voltage  22 V / 48 V  22 V / 62 V  Max DC short circuit current  15 A  15 A  0UTPUT DATA (AC)  Peak output power  240 V A  Namimum continuous output power  230 V A  Nominal voltage/range²  240 V / 211-264 V  208 V / 183-229 V  Nominal output current  0.96 A  1.11 A  1.17 A  1.35 A  Nominal frequency  60 Hz  Extended frequency range  47 - 68 Hz  Fower factor at rated power  1.0  Maximum units per 20 A branch circuit  16  13  Power factor (adjustable)  1 / 0.7 leading 0.7 lagging  1 / 0.7 leading 0.7 lagging  EFFICIENCY  @ 240 V  @ 208 V  @ 208 V  @ 240 V  @ 208 V  © 25 W  EEWeighted efficiency  97.0 %  96.5 %  97.%  96.5 %  MECHANICAL DATA  Ambient temperature range  -40°C to +65°C  Connector type  MC4 or Amphenol H4 UTX  Dimensions (WxHxD)  219 mm x 191 mm x 37.9 mm (without bracket)  Weight  1.5 kg (3.3 lbs)  Cooling  Enclosure environmental rating  Power line  Monitoring  Enlighten Manager and MyEnlighten monitoring options  Compatible with Enphase IQ Envoy  Compliance³  UL 62109-1, U17141/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	Peak power tracking voltage	27 V - 37 V		27 V - 45 V	
Max DC short circuit current         15 A         IQ 6+           OUTPUT DATA (AC)         IQ 6         IQ 6+           Peak output power         240 VA         290 VA           Maximum continuous output power         230 VA         280 VA           Nominal voltage/range²         240 V / 211-264 V         208 V / 183-229 V         240 V / 211-264 V         208 V / 183-229 V           Nominal output current         0.96 A         1.11 A         1.17 A         1.35 A           Nominal frequency         60 Hz         60 Hz         60 Hz           Extended frequency range         47 - 68 Hz         47 - 68 Hz         47 - 68 Hz           Power factor at rated power         1.0         1.0         1.0           Maximum units per 20 A branch circuit         16         13         1.0           Maximum units per 20 A branch circuit         16         13         1.0           Maximum units per 20 A branch circuit         16         13         1.0           Maximum units per 20 A branch circuit         16         10         20         1.0           Maximum units per 20 A branch circuit         16         1.0         2.0         2.0         8         V         2.0         2.0         8         V         2.0         2.0	Operating range	16 V - 48 V		16 V - 62 V	
OUTPUT DATA (AC)         IQ 6         IQ 6+           Peak output power         240 VA         290 VA           Maximum continuous output power         230 VA         280 VA           Nominal voltage/range²         240 V / 211-264 V         208 V / 183-229 V         240 V / 211-264 V         208 V / 183-229 V           Nominal output current         0.96 A         1.11 A         1.17 A         1.35 A           Nominal frequency         60 Hz         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 branch circuit         16         13           Power factor (adjustable)         1 / 0.7 leading 0.7 lagging         1 / 0.7 leading 0.7 lagging           EFFICIENCY         @240 V         @208 V         @240 V         @208 V           ECC weighted efficiency         9.0 %         96.5 %         97 %         96.5 %           MECHANICAL DATA           Ambient temperature range         -40°C to +65°C           Connector type         MC4 or Amphenol H4 UTX           Dimensions (WxHxD)         219 mm x 191 mm x 37.9 mm (without bracket)           Weight         1.5 kg (3.3 lbs)	Min/Max start voltage	22 V / 48 V		22 V / 62 V	
Peak output power         240 VA         290 VA           Maximum continuous output power         230 VA         280 VA           Nominal voltage/range²         240 V / 211-264 V         208 V / 183-229 V         240 V / 211-264 V         208 V / 183-229 V           Nominal output current         0.96 A         1.11 A         1.17 A         1.35 A           Nominal frequency         60 Hz         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 branch circuit         16         13           Power factor (adjustable)         1 / 0.7 leading 0.7 lagging         1 / 0.7 leading 0.7 lagging           EFFICIENCY         @ 240 V         @ 208 V         @ 240 V         @ 208 V           CEC weighted efficiency         97.0 %         96.5 %         97 %         96.5 %           MECHANICAL DATA           Ambien temperature range         -40°C to +65°C           Connector type         MC4 or Amphenol H4 UTX           Dimensions (WxHxD)         219 mm x 191 mm x 37.9 mm (without bracket)           Weight         1.5 kg (3.3 lbs)           Cooling         Natural convection - No fans <t< td=""><td>Max DC short circuit current</td><td>15 A</td><td></td><td>15 A</td><td></td></t<>	Max DC short circuit current	15 A		15 A	
Maximum continuous output power       230 VA       280 VA         Nominal voltage/range²       240 V / 211-264 V       208 V / 183-229 V       240 V / 211-264 V       208 V / 183-229 V         Nominal output current       0.96 A       1.11 A       1.17 A       1.35 A         Nominal frequency       60 Hz       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 branch circuit       16       13         Power factor (adjustable)       1 / 0.7 leading 0.7 lagging       1 / 0.7 leading 0.7 lagging         EFFICIENCY       @ 240 V       @ 208 V       @ 240 V       @ 208 V         CEC weighted efficiency       97.0 %       96.5 %       97 %       96.5 %         MECHANICAL DATA       Ambient temperature range       -40°C to +65°C         Connector type       MC4 or Amphenol H4 UTX         Dimensions (WxHxD)       219 mm x 191 mm x 37.9 mm (without bracket)         Weight       1.5 kg (3.3 lbs)         Cooling       Natural convection - No fans         Enclosure environmental rating       Outdoor - NEMA 250, type 6         FEATURES         Communication       Power li	OUTPUT DATA (AC)	IQ 6		IQ 6+	
Nominal voltage/range²         240 V / 211-264 V         208 V / 183-229 V         240 V / 211-264 V         208 V / 183-229 V           Nominal output current         0.96 A         1.11 A         1.17 A         1.35 A           Nominal frequency         60 Hz         60 Hz         60 Hz           Extended frequency range         47 - 68 Hz         47 - 68 Hz         - 68 Hz           Power factor at rated power         1.0         1.0         1.0           Maximum units per 20 A branch circuit         16         13         1 / 0.7 leading 0.7 lagging         1 / 0.7 leading 0.7 lagging         1 / 0.7 leading 0.7 lagging         208 V         240 V         V <td< td=""><td>Peak output power</td><td>240 VA</td><td></td><td>290 VA</td><td></td></td<>	Peak output power	240 VA		290 VA	
Nominal output current         0.96 A         1.11 A         1.17 A         1.35 A           Nominal frequency         60 Hz         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 branch circuit         16         13           Power factor (adjustable)         1 / 0.7 leading 0.7 lagging         1 / 0.7 leading 0.7 lagging           EFFICIENCY         @240 V         @208 V         @240 V         @208 V           CEC weighted efficiency         97.0 %         96.5 %         97 %         96.5 %           MECHANICAL DATA           Ambient temperature range         -40°C to +65°C         -40°C to +6	Maximum continuous output power	230 VA		280 VA	
Nominal frequency Extended frequency range 47 - 68 Hz 47 - 68 Hz  Power factor at rated power 1.0  Maximum units per 20 A branch circuit 16  13  Power factor (adjustable) 1 / 0.7 leading 0.7 lagging  2 / 0.8 V  2 / 0. V  2	Nominal voltage/range <sup>2</sup>	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Extended frequency range 47 - 68 Hz 47 - 68 Hz  Power factor at rated power 1.0 1.0  Maximum units per 20 A branch circuit 16 13  Power factor (adjustable) 1 / 0.7 leading 0.7 lagging 1 / 0.7 leading 0.7 lagging 20 A V @240 V	Nominal output current	0.96 A	1.11 A	1.17 A	1.35 A
Power factor at rated power  Maximum units per 20 A branch circuit  16  13  Power factor (adjustable)  1 / 0.7 leading 0.7 lagging  2 / 0	Nominal frequency	60 Hz		60 Hz	
Maximum units per 20 A branch circuit  16  Power factor (adjustable)  1 / 0.7 leading 0.7 lagging  1 / 0.7 leading 0.7 laggi	Extended frequency range	47 - 68 Hz		47 - 68 Hz	
Power factor (adjustable)  1 / 0.7 leading 0.7 lagging  1 / 0.7 leading 0.7 lagging  EFFICIENCY  @ 240 V @ 208 V @ 240 V @ 208 V  CEC weighted efficiency  97.0 % 96.5 % 97 % 96.5 %  MECHANICAL DATA  Ambient temperature range  -40°C to +65°C  Connector type  MC4 or Amphenol H4 UTX  Dimensions (WxHxD)  219 mm x 191 mm x 37.9 mm (without bracket)  Weight  1.5 kg (3.3 lbs)  Cooling  Natural convection - No fans  Enclosure environmental rating  Outdoor - NEMA 250, type 6  FEATURES  Communication  Power line  Monitoring  Enlighten Manager and MyEnlighten monitoring options  Compatible with Enphase IQ Envoy  Compliance³  UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	Power factor at rated power	1.0		1.0	
EFFICIENCY  @ 240 V @ 208 V @ 240 V @ 240 V @ 208 V  CEC weighted efficiency  97.0 % 96.5 % 97 % 96.5 %  MECHANICAL DATA  Ambient temperature range  -40°C to +65°C  Connector type  MC4 or Amphenol H4 UTX  Dimensions (WxHxD)  219 mm x 191 mm x 37.9 mm (without bracket)  Weight  1.5 kg (3.3 lbs)  Cooling  Natural convection - No fans  Enclosure environmental rating  Outdoor - NEMA 250, type 6  FEATURES  Communication  Power line  Monitoring  Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy  Compliance³  UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	Maximum units per 20 A branch circuit	16		13	
CEC weighted efficiency 97.0 % 96.5 % 97 % 96.5 %  MECHANICAL DATA  Ambient temperature range -40 °C to +65 °C  Connector type MC4 or Amphenol H4 UTX  Dimensions (WxHxD) 219 mm x 191 mm x 37.9 mm (without bracket)  Weight 1.5 kg (3.3 lbs)  Cooling Natural convection - No fans Enclosure environmental rating Outdoor - NEMA 250, type 6  FEATURES  Communication Power line  Monitoring Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy  Compliance³ UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	Power factor (adjustable)	1 / 0.7 leading 0.7 lagging		1 / 0.7 leading 0.7 lagging	
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Ambient temperature range  -40°C to +65°C  Connector type  MC4 or Amphenol H4 UTX  Dimensions (WxHxD)  219 mm x 191 mm x 37.9 mm (without bracket)  Weight  1.5 kg (3.3 lbs)  Cooling  Natural convection - No fans  Enclosure environmental rating  Outdoor - NEMA 250, type 6  FEATURES  Communication  Power line  Monitoring  Enlighten Manager and MyEnlighten monitoring options  Compatible with Enphase IQ Envoy  Compliance <sup>3</sup> UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	CEC weighted efficiency	97.0 %	96.5 %	97 %	96.5 %
Connector type MC4 or Amphenol H4 UTX  Dimensions (WxHxD) 219 mm x 191 mm x 37.9 mm (without bracket)  Weight 1.5 kg (3.3 lbs)  Cooling Natural convection - No fans  Enclosure environmental rating Outdoor - NEMA 250, type 6  FEATURES  Communication Power line  Monitoring Enlighten Manager and MyEnlighten monitoring options  Compatible with Enphase IQ Envoy  Compliance <sup>3</sup> UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	MECHANICAL DATA				
Dimensions (WxHxD)  219 mm x 191 mm x 37.9 mm (without bracket)  Weight  1.5 kg (3.3 lbs)  Cooling  Natural convection - No fans  Enclosure environmental rating  Outdoor - NEMA 250, type 6  FEATURES  Communication  Power line  Monitoring  Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy  Compliance <sup>3</sup> UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	Ambient temperature range	-40°C to +65°C			
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Enclosure environmental rating  Outdoor - NEMA 250, type 6  FEATURES  Communication  Power line  Monitoring  Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy  Compliance <sup>3</sup> UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	Weight	1.5 kg (3.3 lbs)			
FEATURES  Communication Power line  Monitoring Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy  Compliance <sup>3</sup> UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	Cooling	Natural convection - No fans			
Communication Power line  Monitoring Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy  Compliance <sup>3</sup> UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	Enclosure environmental rating	Outdoor - NEMA 250, type 6			
Monitoring Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy  Compliance <sup>3</sup> UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	FEATURES	'			'
Compatible with Enphase IQ Envoy  Compliance <sup>3</sup> UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,	Communication	Power line			
	Monitoring				
	Compliance <sup>3</sup>				

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

