IQ Gateway Fusion

Bringing the sun to everyone, the IQ Gateway Fusion allows homeowners to easily harness up to 3680 W of sustainable solar energy from solar panels and power loads even during daytime grid outages[1]



Enphase 5 year warranty

Key specifications	IQ-SSG-1-WM-IN
Maximum output power to grid	3680 W
Nominal grid voltage	230 V
Nominal frequency	50 Hz
Rated current	16 A
Auxiliary socket type	Type M+D
Wi-Fi/BLE	Wi-Fi: 802.11b/g/n | BLE: 4.2 (2.4 GHz)
Operating temperature range	–20°C to 50°C

Capture renewable solar energy

- An all-in-one, easy to install system, to conveniently harness the power of the sun[1]
- Integrates IQ Gateway and IQ Relay functions in one compact design

Sunlight Backup (off-grid power)

- Use solar to power essentials during daytime grid outages via the built-in auxiliary socket
- Reduce grid power consumption by powering a load with solar via the built-in auxiliary socket

Enphase Installer App

- Simplified installation and setup using Enphase Installer App
- Monitor your system status in real time and see how much energy each panel is producing

Highly reliable

- IP65 rating for IQ Gateway Fusion
- 5-year warranty for IQ Gateway Fusion

[1] Up to 7 panels with IQ8P Microinverters and 9 panels with IQ8HC Microinverters can be operated with one IQ Gateway Fusion

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Model number	IQ-SSG-1-WM-IN
IQ-SSG-1-WM-IN	IQ Gateway Fusion with Type M+D Socket

Electrical specifications	Units	IQ-SSG-1-WM-IN
Nominal grid voltage	V	230
Min./Max. input voltage	V	184/276
Rated current	A	16
Nominal frequency	Hz	50
Min./Max. frequency	Hz	47/52
Auxiliary socket type	—	Type M+D
Auxiliary breaker rating	A	20
Overvoltage category	—	III
Maximum output power to grid	W	3680
Maximum output power to auxiliary socket	W	3680

Interfaces	Units	IQ-SSG-1-WM-IN
Wi-Fi/BLE	—	Wi-Fi: 802.11b/g/n | BLE: 4.2 (2.4 GHz)
PLC	—	110–120 kHz (Class B)
LED	—	2 (Main LED, Aux LED)
Configured using	—	Enphase Installer App

Mechanical data	Units	IQ-SSG-1-WM-IN
Dimensions (L× W × D)	mm	273 × 116 × 93
Weight	kg	1.14
IP rating	—	IP65 (Hatch closed and no plug in the auxiliary socket); IP55 (Hatch closed with a right-angled plug in the auxiliary socket)
Mounting	—	Wall mount
Pollution degree	—	2

Environmental specifications	Units	IQ-SSG-1-WM-IN
Operating temperature range	—	–20°C to 50°C
Altitude	m	Up to 3000
Relative humidity	—	0–100% non-condensing
Installation location	—	Indoor

Compliance	Units	IQ-SSG-1-WM-IN
Grid interconnect	—	CEA 2019 230 1.3.2, IEC 62116, IEC 61727
Safety	—	IEC 61010, IS 1293:2019
RED	—	ETSI 300 328, ETSI 301 489-1, IEC 62311
EMC/EMI	—	IEC 61000-6-2, IEC 61000-6-3, IEC 61000-3-2, IEC 61000-3-3, CISPR 11, CISPR 32

Cables and accessories specifications

Specifications	Units	PV cable	Grid cable
Voltage rating	—	600 V (Connector rating up to 250 V)	
IQ Cable temperature rating	—	−40°C to 90°C wet/dry	
Connector temperature rating	—	−40°C to 85°C	-40°C to 50°C
UV exposure rating	—	IEC 60068-2-5 1008h ≤±30%	
Environmental protection rating	—	IEC 60529 IP67	
IQ Cable type	—	H07BQ-F	
Cable flame rating	—	According to IEC 60332-1-2	
Connector type	—	Female AC connector	AC 3-pin connector
IQ Cable outer diameter	mm	10.3 ± 0.3	
Manufacturer rated current	—	20 A @ 25°C	
Minimum bending radius	cm	5	
Conductor resistance	—	7.98 Ω/km (20°C), 9.75 Ω/km (85°C)	
Compliance	—	RoHS, OIL RES I, CE, IEC 61984 (Update), IEC 62368-1, EN 60228, IS 694	
Conductor cross sectional area	sq. mm	2 × 2.5	3 × 2.5
Cable length	m	1	
Weight	g	200	300

Revision history

Revision	Date	Description
DSH-00858-1.0	December 2025	Preliminary release.