solaredge

Installation Guide

Wi-Fi Gateway, Wi-Fi Repeater

Model: WIFI-GW

Version 1.1

Disclaimers

Important Notice

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The content of these documents is continually reviewed and amended, where necessary. However, discrepancies cannot be excluded. No guarantee is made for the completeness of these documents.

The images contained in this document are for illustrative purposes only and may vary depending on product models.

Emission Compliance

This equipment has been tested and found to comply with the limits applied by the local regulations.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.

NOTE

Interferences may occur when the Wi-Fi Gateway and repeater are installed near other 2.4 GHz emitting devices (such as dual technology PIR detectors used in alarm systems, microwave ovens, etc.). This might degrade/ disable the gateway/ repeater operation. If possible, avoid installation nearby such devices, or consider these interferences when troubleshooting.

Revision History

- Version 1.1 (May 2019) - Editorial changes
- Version 1.0 (Feb. 2019) - Initial release

Contents

Support and Contact Information

If you have technical problems concerning SolarEdge products, please contact us:

Support Center: https://www.solaredge.com/service/support

Country	Phone	E-Mail
Australia (+61)	1800 465 567	support@solaredge.net.au
APAC (Asia Pacific) (+972)	073 240 3118	support-asia@solaredge.com
Belgium (+32)	0800-76633	support@solaredge.be
China (+86)	21 6212 5536	support_china@solaredge.com
DACH & Rest of Europe (+49)	089 45459730	support@solaredge.de
France (+33)	0806 700409	support@solaredge.fr
Italy (+39)	0422 053700	support@solaredge.it
Japan (+81)	03 6262 1223	support@solaredge.jp
Netherlands (+31)	0800 7105	support@solaredge.nl
New Zealand (+64)	0800 144 875	support@solaredge.net.au
Republic of Ireland (+353)	1800 901 575	support-uk@solaredge.com
United Kingdom (+44)	0800 0281183	

Country	Phone	E-Mail
US & Canada (+1)	510 498 3200	ussupport@solaredge.com
Greece (+49)	89 454 59730	support@solaredge.com
Israel (+972)	073 240 3122	
Middle East & Africa (+972)	073 240 3118	
South Africa (+27)	0800 982 659	
Turkey (+90)	216 706 1929	
Worldwide (+972)	073 240 3118	

Before contact, make sure to have the following information at hand:

- Model and serial number of the product in question.
- The error indicated on the Inverter SetApp mobile application or on the monitoring platform or by the LEDs, if there is such an indication.
- System configuration information, including the type and number of modules connected and the number and length of strings.
- The communication method to the SolarEdge server, if the site is connected.
- The inverter software version as appears in the status screen.

About This Guide

This user guide is intended for Photovoltaic (PV) system owners, installers, technicians, maintainers, and integrators who use the SolarEdge power harvesting system.

This guide describes how to install and set up the Wi-Fi Gateway and Wi-Fi Repeater(s).

This guide assumes that the SolarEdge power harvesting system is already installed and commissioned. For additional information about how to install and commission the SolarEdge power harvesting system, refer to the relevant installation guide.

This guide includes the following chapters:

- *Overview* on page 9, describes the SolarEdgeWi-Fi Gateway and repeater functionality and connection options.
- *Wi-Fi Gateway Interfaces* on page 14 describes the Wi-Fi Gateway/repeater push-button functionality and it LED indications.
- *Connection and Configuration* on page 18 describes how to establish a Wi-Fi connection for SolarEdge inverters using the Wi-Fi Gateway and repeater(s).

- *Status, Errors and Troubleshooting* on page 23 describes how to identify and troubleshoot errors .
- *Wi-Fi Gateway and Repeater Technical Specifications (Europe & APAC)* on page 32 provides the electrical and mechanical specifications of the Wi-Fi Gateway.

For further information, datasheets and the most up-to-date certifications for various products in different countries, please visit the SolarEdge website: www.solaredge.com.

Chapter 1: Overview

The Wi-Fi communication option enables connecting a SolarEdge inverter to the SolarEdge monitoring platform. The Wi-Fi Gateway collects all inverters monitoring data using dedicated Wi-Fi and connects to the monitoring platform through Ethernet.

The Wi-Fi connection between the gateway and the inverter is independent ("walled garden"), thus avoids problems related to the home router, for example: changing the password will not affect the PV system connection to the monitoring platform.

A Wi-Fi access point is built into the inverter. An antenna (included in the Wi-Fi Gateway package) connects to the inverter. The Wi-Fi Gateway is connected to the home router with an Ethernet cable.

SolarEdge offers two Wi-Fi products:

- Wi-Fi Gateway - provides the inverter connection to the monitoring platform.
- Wi-Fi Repeater(s) - one or two repeaters can be used for extending the Wi-Fi range. The repeater connection to the Wi-Fi Gateway and inverters is wireless and does not require an Ethernet cable.

The Wi-Fi Gateway and repeater can be used with SolarEdge inverters with SetApp configuration, version 4.6.xx and later.

Figure 1: The Wi-Fi Gateway/ Repeater

Connection Options

Terminology

This document uses the following terms for describing the communication flow:

- **Uplink** - communication from the inverter or Wi-Fi repeater to the Wi-Fi Gateway/repeater towards the monitoring platform (see *Figure 2*).
- **Downlink** - communication from the Wi-Fi Gateway or repeater towards the inverter/ repeater (see *Figure 2*).

Single Inverter, Wireless Connection

The inverter is wirelessly connected to the monitoring platform via the Wi-Fi Gateway. The Wi-Fi Gateway is connected to the home router via Ethernet. One or two optional repeaters extend the Wi-Fi range.

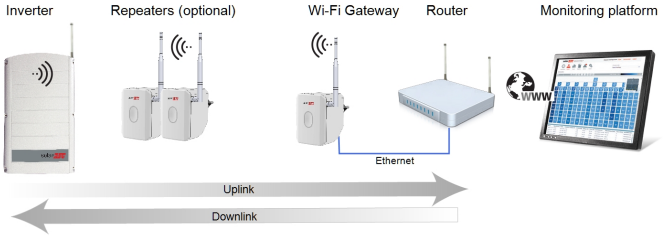


Figure 2: Single inverter, wireless connection

Multiple Inverters

Multiple devices, RS485 Master/ Slaves

Multiple inverters are connected in an RS485 bus. The master is connected wirelessly to the Wi-Fi Gateway. The Wi-Fi Gateway is connected to the home router via Ethernet. One or two optional repeaters extend the Wi-Fi range.

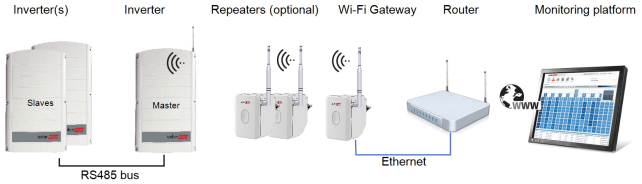


Figure 3: Multiple inverters, wired connection

Multiple devices, Wi-Fi Point to Multi-point

This configuration enables connecting multiple devices wirelessly. The Wi-Fi Gateway is connected to the home router via Ethernet. Several inverters can be connected to a single Wi-Fi Gateway. One or two optional repeaters can be used to extend the Wi-Fi range.

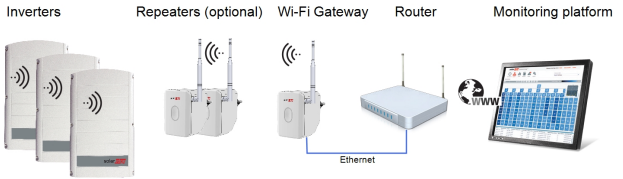


Figure 4: Multiple inverters, Wi-Fi Point to Multi-point

Package Contents

The Wi-Fi products' (gateway or repeater) packaging include the following items:

	Wi-Fi Gateway	Repeater
Wi-Fi device (gateway/ repeater)	✓	✓
Wi-Fi Gateway antenna	✓	✓
Wi-Fi antenna (with bracket) for inverter[1]	✓	X
Ethernet cable	✓	X
Installation guide	✓	✓

NOTE

Keep the device packaging as you will use the QR code on the labels for configuration.

[1] For connecting additional inverters, an antenna is available from SolarEdge

Chapter 2: Wi-Fi Gateway Interfaces

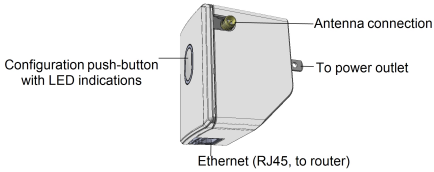


Figure 5: Wi-Fi Gateway interfaces

Push-button

The Wi-Fi Gateway is equipped with a configuration push-button, which is used for:

- Accessing troubleshooting mode. Refer to *Troubleshooting* on page 27.
- Enabling a mobile device (for example: smart phone, tablet) to access a web page for maintenance.
- Factory reset

The push button is illuminated by LEDs. The LED indications are summarized in the next section.The following sections describe the push-button functionality.

LED Indications

The following table describes the LED color indications for the Wi-Fi Gateway or repeater:

Color	Status	Indication
Red	OFF	No power
	ON	Internal error
	Fast blinking (5 sec.)	• During factory reset , or • Pairing between the inverter and the Wi-Fi Gateway or the closest repeater to the inverter failed.
Green	Fast Blinking (5 sec.)	Pairing between the inverter and the Wi-Fi Gateway or the closest repeater to the inverter succeeded.
Blue	ON	• Communication between the Wi-Fi Gateway and the monitoring platform is OK, and • Communication between the Wi-Fi Gateway and at least one inverter is OK.

Color	Status	Indication
	Fast blinking (5 sec.)	• During pairing of repeater and uplink gateway, and • Pairing between the repeater and the Wi-Fi Gateway or the closest uplink repeater to the inverter succeeded.
	Blinking	• Communication between the Wi-Fi Gateway and the monitoring platform is OK, and • No communication between the Wi-Fi Gateway/repeater and the downlink repeater/ inverter
Orange	Fast blinking (5 sec.)	Pairing of a repeater with the Wi-Fi Gateway or the closest uplink repeater failed
	Blinking	• No communication between the Wi-Fi Gateway/repeater and the monitoring platform, and

Color	Status	Indication
		• At least one inverter is connected to the Wi-Fi Gateway/ repeater.
	Flashing[1]	• No communication between the Wi-Fi Gateway/repeater and the monitoring platform, and • No communication between the Wi-Fi Gateway/repeater and the downlink repeater/ inverter.
Purple	Blinking	During pairing of the Wi-Fi Gateway/repeater with a downlink repeater/ inverter

[1] Flashing: gradual increase/ decrease of light intensity

Chapter 3: Connection and Configuration

This section describes basic connection and configuration of one or more inverters.

You can connect the inverter(s) using just the Wi-Fi Gateway. However, one or two repeaters may be required to extend the Wi-Fi range.

You can choose to delay the installation completion, in which case the first configuration steps are performed by the installer, and the home owner can later connect the devices to electrical outlet(s) and the Wi-Fi Gateway to a router. Wi-Fi connection should be established automatically.

NOTE

The repeater adopts the SSID, password and authentication type of its paired Wi-Fi Gateway instead of using the values on its label.

NOTE

Inverters within the site may connect to the repeater or directly to the Wi-Fi Gateway, depending on their distance from the gateway and on signal strength.

→ To connect a Wi-Fi Gateway and Repeater(s):

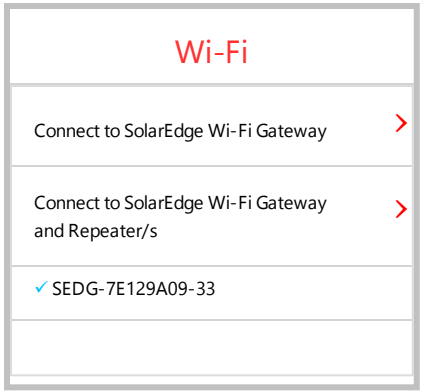
The following steps describe pairing a Wi-Fi Gateway (and a repeater if required), with the inverter and connecting the inverter to the monitoring platform via Wi-Fi. It is recommended to perform the pairing when the devices are close to each other.

1. Prepare the inverter(s):
   a. Install a Wi-Fi antenna in the inverter(s).
   b. Open SetApp as described in the *inverter installation guide*.
   c. For multiple inverters connected on an RS485-bus, configure the RS485-bus as described in the Communication Options application note.
   d. Configure the inverter(s) to connect to the monitoring platform via Wi-Fi: In SetApp select **Communication➔Server ➔ Wi-Fi**.
2. Connect the Wi-Fi Gateway:
   a. Connect the supplied antenna to the Wi-Fi Gateway.
   b. Plug the Wi-Fi Gateway to a power socket.
   c. Connect the Ethernet cable between the Wi-Fi Gateway and the home router used for Internet connection.

d. Optionally, plug a repeater into a power socket to extend the Wi-Fi range. Locate the devices within the distances defined in the technical specifications to ensure signal reception.

3. Use SetApp to pair the Wi-Fi Gateway (and repeater if required) with the inverter:

   a. Select **Communication ➔ Wi-Fi**. The Wi-Fi screen is displayed:



   b. Follow the instructions on the SetApp screen: Scan the QR codes, or enter the SSID (format: SEDG-XXXXXXXX-YY) and password, all printed on the devices' label or packaging.

      The credentials are transmitted to the inverter.

c. Wait for the message **All Device(s) Scanned** to appeaer on the SetApp screen.

d. Do one of the following:

- To complete the installation now, select **Continue Now**. The inverter attempts to establish a connection with the Wi-Fi Gateway and the monitoring platform. This may take up to 10 seconds, during which the push-button LED will fast blink purple (gateway), or blue (repeater). Upon completion, the LED will indicate the device status as described in *LED Indications* on page 15.
- To continue later, select **Continue Later**. If this option is chosen, the home owner should connect the devices to the electrical outlets and the router later on, at their own discretion.

e. After all devices are installed, verify that the blue LED on the Wi-Fi Gateway is ON, which indicates the communication between the inverter and the monitoring platform has been established.

f. If connection failed, or after 2 minutes of attempts to connect, SetApp displays a failure indication and troubleshooting text. The LED will indicate the device status as described in *LED Indications* on page 15. For

troubleshooting, refer to "Status, Errors and Troubleshooting " on page 23.

g. If required, repeat the above steps for additional inverters.

Chapter 4: Status, Errors and Troubleshooting

This section describes how to use the Wi-Fi Gateway push button to check the system status, edit parameters, troubleshoot errors, or reset the device.

Accessing the Wi-Fi Gateway Web Page

You can check or edit Wi-Fi Gateway parameters by accessing a web page. The web page allows selecting a Wi-Fi channel, and enables the device to broadcast its factory MAC address for 15 minutes for monitoring purposes. Note that Wi-Fi connectivity will be lost during this period.

The web page is accessible while the Wi-Fi Gateway is connected to the router via Ethernet (**Operational** mode).

If there is no Ethernet connection (**Maintenance** mode), you can use the Wi-Fi Gateway/repeater push button to access the web page.

→ To access the web-page when the Wi-Fi Gateway is in Operational mode:

1. Open a browser on your mobile device (smart-phone, tablet).
2. Enter the following:
   - IP address: 192.168.5.1.
   - Username: Admin
   - Password: the 4 last digits of the Wi-Fi Gateway serial number (printed on the QR label)
   - Authentication type (printed on the label)

   The following is a web page example of the Wi-Fi Gateway Operational mode:

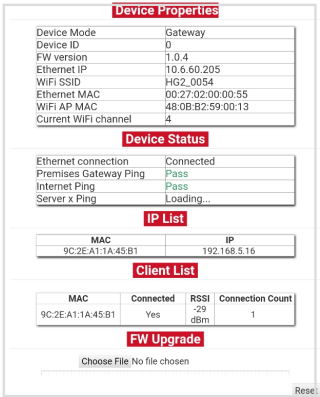


Figure 6: Web page (Operational mode)

→ To access the web-page when the Wi-Fi Gateway is in Maintenance mode:

1. Press the push-button for more than 4 seconds. The Wi-Fi Gateway attempts to establish connection with a mobile device.
2. On your mobile device, access the list of Wi-Fi networks. The list will now contain one or more access points, as follows:
   - For Wi-Fi Gateway: SEDG-GW-MAINT[xx]
   - For Wi-Fi repeater: SEDG-RPTR-MAINT[xx]
3. Select one of the above access points to view its parameters.
4. Enter password: the 4 last digits of the Wi-Fi Gateway serial number (printed on the QR label). The web page is displayed.

   The following is a web page example of the Wi-Fi Gateway Maintenance mode:

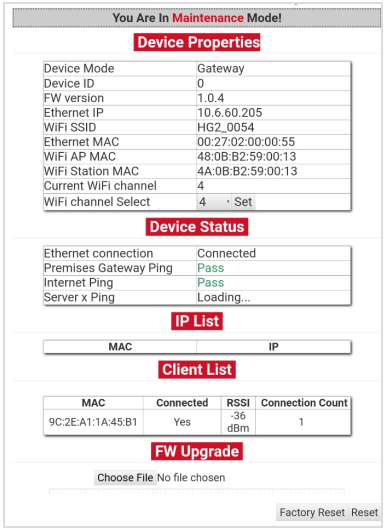


Figure 7: Web page (Maintenance mode)

Troubleshooting

You can check for connectivity errors by observing the LED indications in troubleshooting mode.

This functionality is unavailable during pairing or if pairing failed.

→ To activate the error display:

Short-press the push-button (< 1 sec). The LED color changes in the following sequence:

Color1 blinks ➔ 0.25 sec pause ➔ **Color1** blinks ➔ 1/2 sec pause ➔ **Color2** blinks ➔ 0.25 sec pause ➔ **Color2** blinks.

The following table summarizes the colors and their indications, and how to troubleshoot errors.

Color 1	Color 2	Error #	Description	Troubleshooting
Red	Orange	1	LAN disconnected	Check the cable pinout assignment and cable connection. Refer to *Creating an Ethernet (LAN) Connection* in the *inverter installation guide*.
			No downlink Wi-Fi reception	No downlink Wi-Fi connection detected by the repeater. Check that the repeater is plugged in, or reduce the distance between the devices.
Red	Blue	2	DHCP Failed, or Invalid DHCP configuration	IP settings problem. Check the router and inverter configuration. Consult with your network provider.

Color 1	Color 2	Error #	Description	Troubleshooting
Orange	Red	3	Ping to router failed	Check the physical connection to the router. Check that the link LED at the router is lit (indicating physical link). If OK - contact your network provider, otherwise replace the cable or change it from cross to straight connection.
Orange	Orange	4	Internet Ping Failed (to Google server)	Connect a laptop to the home router and check for internet connection. If internet access is unavailable, contact your IT admin or your internet service provider. If internet access is available, contact SolarEdge Support.

Color 1	Color 2	Error #	Description	Troubleshooting
Orange	Blue	5	Server Ping Failed	Ping or connection to SolarEdge server failed. Check with your network administrator whether a firewall or another device is blocking transmission. If internet access is available, contact SolarEdge Support.
Green	Green	6	No fault	N/A
Blue	Red	7	Low uplink Wi-Fi reception	Low Wi-Fi signal received by the gateway/ repeater. Check that the gateway/ repeater is plugged in, or reduce the distance between the devices.
Blue	Orange	8	Low downlink Wi-Fi reception	Low Wi-Fi signal received by the repeater. Check that the gateway/ repeater is plugged in, or reduce the distance between the devices.

Factory Reset

Factory Reset is used to reset all the parameters to factory values, and erase the device list. Use this functionality to select a new Wi-Fi band in case no device can be connected, or multiple connection interruptions. During factory reset the red LED fast-blinks.

→ To reset the Wi-Fi Gateway:

2. Unplug the device from the power socket.
3. Press the button *while plugging in* to the power socket. Hold the button for 5 seconds.
4. Release the button after 5 sec.

Wi-Fi Gateway and Wi-Fi Repeater Technical Specifications (Europe & APAC)

Model: WIFI-GW

Performance		Unit
Transmit power (Max)	15	dBm
Receiver sensitivity	-94 to -69	dBm
EIRP with Antenna	20	dBm
Outdoor (LOS) range	400 / 1300	m/ft
Indoor range(1)	50 /160	m/ft
Frequency Band	2412 - 2472	MHz
Bandwidth	20	MHz
Antenna gain(2)	5	dBi
Network and Security		
Channels(3)	1-13	
Security	WPA-PSK, WPA2-PSK, WEP	

(1) Approximate values, may differ depending on specific installation conditions.

(2) The antenna may have higher gain within EIRP power constraint.

(3) Channels 12-13 are allocated for future use.

Wireless LAN		
Standards	802.11b/g/n	
Modulation	802.11b - DSSS-CCK 802.11g - OFDM 802.11n - HT modulations MCS0-7	
Data rates	1 - 72	Mbps
Environmental		
Operating temperature	-20 to +60 / -4 to +140	°C / °F
Storage temperature	-20 to +60 / -4 to +140	°C / °F
Relative humidity (non-condensing)	0 to 80	%
Ingress protection	IP20	
Mechanical		
Dimensions (HxWxD; with pins)	66.3 x 48 x 82.7 / 2.6 x 1.8 x 3.2	mm/ inch
Weight without antenna	90 / 0.20	gr / lb
Weight with antenna	110 / 0.24	gr /lb

Power Supply		
AC Voltage (nominal)	100-240	Vac
AC frequency (nominal)	50/60	Hz
Max Input Current	50	mA
Standard Compliance		
Safety	IEC/EN 62368-1	
EMC	EN301 489-1; EN301 489-17; EN300 328; EN55032:2015+AC:2016; EN55035; EN61000- 3-2:2041; EN61000-3-3:2013; EN61000-4-2:2009; EN61000-4-3:2006+A1:2008+A2:2010; EN61000-4-4:2012; EN61000-4-5:2014+A1:20174; EN61000-4- 6:2014+AC:2015; EN61000-4-11:2004+A1:2017; AS/NZS 4268:2017	
AC Plug	EN 50075	

Wi-Fi Gateway and Wi-Fi Repeater Technical Specifications (North America)

Model: WIFI-GW

Performance		Unit
Transmit power (Max)	19.5	dBm
Receiver sensitivity	-94 to -69	dBm
EIRP with Antenna	24.5	dBm
Outdoor (LOS) range	400 / 1300	m/ft
Indoor range(1)	50 /160	m/ft
Frequency Band	2412 - 2462	MHz
Bandwidth	20	MHz
Antenna gain(2)	5	dBi
Network and Security		
Channels	1-11	
Security	WPA-PSK, WPA2-PSK, WEP	

(1) Approximate values, may differ depending on specific installation conditions.

(2) The antenna may have higher gain within EIRP power constraint.

Wireless LAN		
Standards	802.11b/g/n	
Modulation	802.11b - DSSS-CCK 802.11g - OFDM 802.11n - HT modulations MCS0-7	
Data rates	1 - 72	Mbps
Environmental		
Operating temperature	-20 to +60 / -4 to +140	°C / °F
Storage temperature	-20 to +60 / -4 to +140	°C / °F
Relative humidity (non-condensing)	0 to 80	%
Ingress protection	IP20	
Mechanical		
Dimensions (HxWxD; with pins)	66.3 x 48 x 63 / 2.6 x 1.8 x 2.5	mm/ inch
Weight without antenna	90 / 0.20	gr / lb
Weight with antenna	110 / 0.24	gr /lb

Power Supply		
AC Voltage (nominal)	100-240	Vac
AC frequency (nominal)	50/60	Hz
Max Input Current	50	mA
Standard Compliance		
Safety	UL62368-1:2014 Ed.2; CSA-C22.2 No. 62368-1:2014 Ed.2	
EMC	CFR 47 FCC Part 15,Subpart B; Canada ICES-003, Issue 6; ANSI C63.10:2013	
AC Plug	NEMA 1-15P (two-pole, no ground)	

Interference Statements

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all Wi-Fi product marketed in US must fixed to US operation channels only.

Industry Canada statement

This device complies with ISED's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d' ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20 cm between the radiator & your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20 cm entre le radiateur et votre corps.

If you have technical queries concerning our products, please contact our support through the SolarEdge service portal: www.solaredge.com/service/support

APAC (Asia Pacific)(+972)	073 240 3118
Australia (+61)	1800 465 567
Belgium (+32)	0800-76633
China (+86)	21 6212 5536
DACH & Rest of Europe (+49)	089 454 59730
France (+33)	0806 700409
Greece (+49)	89 454 59730
Israel (+972)	073 240 3122
Italy (+39)	0422 053700
Japan (+81)	03 6262 1223
Middle East & Africa (+972)	073 240 3118
Netherlands (+31)	0800-7105
New Zealand (+64)	0800 144 875
Republic of Ireland	1-800-901-575
South Africa (+27)	0800 982 659
Turkey (+90)	216 706 1929
United Kingdom (+44)	0800 028 1183
US & Canada (+1)	510 498 3200
Worldwide (+972)	073 240 3118

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