



HGQQMSD10.AUSH

Please read this manual carefully before operating your set and retain it for future reference

Some of the content in this guide may differ from your unit.

This communications gateway is for end-users. It consists of basic information regarding the communication gateway. For gateway installation and setup, refer to the installation instructions of AC module system.

(Ver. 1.0)

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www.lg.com



Please take note of the safety instructions to prevent any potential accident or misuse of the

Safety precautions are given in two forms, i.e. Warning and Caution as detailed below.

⚠ WARNING

Failure to follow the instructions may cause serious injury and even



Failure to follow the instructions may cause injury to persons or damage to the product.



- Do not place the product in direct sunlight or near heat sources such as radiator, fires,
- This may cause fire.
- Do not allow children to cling to the Product.
- This may cause the product to fall, causing injury or death.
- Do not place the product on a place which can be reached by oil or steam such as a cooking table or humidifier.
- An electric shock or fire may occur.
- Do not use the product in damp places like a laundry room or bathroom.
- Moisture may cause a glitch or an electric shock.
- Plug the power cord tightly into the outlet.
- Loose connection of the power cord could cause a fire.
- Do not place heavy objects on the power cord.
- This may cause fire or electric shock.
- Never touch the power cord with your hands wet.
- Otherwise, an electric shock may occur.

- Operate the product at the proper voltage (AC 120 V).
- Excessive voltage may result in damage on the product, electric shock or fire.
- Pull the plug, not the cord, to disconnect the power.
- Otherwise, a fire may occur or the product may get damaged.
- Do not impair the cord by bending or pressing it too hard. Keep children and pets from damaging the power cord.
- An impaired cord could damage the product parts causing a fire or an electric shock.
- Do not insert a metal chopstick or other conductors into a hole of the outlet when the power cable is connected to the outlet. Do not touch the plug right after disconnecting it from the outlet.
- Otherwise, an electric shock may occur.
- Please use the power cord certified by LG Electronics.
- Using a non-certified product may result in a fire and electric shock.
- Do not disassemble, repair, or revamp the product.
- An electric shock or fire may occur.
- If you need a checking, adjustment, or repair, contact the service center.
- Do not place anything containing liquid on top of the product, such as a vase, flower pot, cup, cosmetics, or medicine; or ornaments, candles, etc.
- This may cause fire or electric shock, or injury due to falling.
- Do not spray water directly to the product when cleaning. Do not allow water to get into the product or do not allow it to get wet.
- This may cause fire or electric shock.
- To avoid damage and explosion of the gateway, do not use at temperatures outside of 0 °C to 60 °C (32 °F to 140 °F).

/!\ CAUTION —

- Place the product in a safe place so that it does not fall.
- If dropped, the product could be damaged and even cause an injury.
- Place and use the product indoor only.
- Otherwise, this may cause damage to the product.
- Do not connect the product to power strips, surge protector or surge protector-embedded power strips. It is recommended the gateway is directly connected to a 120V AC outlet.
- Otherwise, communication interference may occur.

MARNING: This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, and Tuluene, which is known to the State of California to cause birth defects or other reproductive harm, For more information go to www.P65Warnings.ca.gov.

OSS Notice Information

To obtain the source code under GPL, LGPL, MPL and other open source licenses, that is contained in this product, please visit http://opensource.lge.com. In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download. LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to opensource@lge.com. This offer is valid for three(3) years from the date on which you purchased the product.

Warranty

If you want to check the product quality assurance, please visit http://enervu.lg-solar.com/support.

Warranty Reference Table				
Standard Warranty Term	5 Years			

Federal Communications Commission(FCC) Statement

You are cautioned that changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. 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 quarantee that interference will not occur in a particular installation. If this equipment dose 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
- Consult the dealer or an experienced radio/TV technician for help.

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.

Indoor use only

FCC Caution: for indoor use only, use outdoors or in other modes not covered by this manual may violate the FCC regulation and violate the use authority to use the product. Specially, within the 5.15-5.25GHz band, U-NII device is restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. End users must follow the specific operating instructions for satisfying RF exposure compliance.

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

CAUTION: Regulations of the FCC and FAA prohibit airborne operation of radio-frequency wireless devices because their signals could interfere with critical aircraft instruments.





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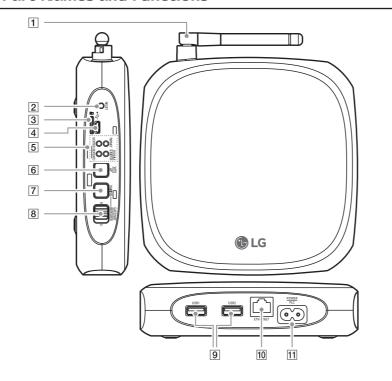




Components



Part Names and Functions



1 Antenna

2 RESET button: Press the button to reset the product.

3 Micro SD Card slot : Spare slot (for engineer)

4 Micro USB Port : Spare port (for engineer)

5 LEDs

MOBILE/S-METER (S-METER: Smart Meter): Displays status of AP/ZigBee mode.

Status	Description
OFF	- AP mode is not operating ZigBee is not connected.
AMBER (ON)	Operating in AP mode.
GREEN (Blinking)	ZigBee(S•Meter) is in paring.
GREEN (ON)	ZigBee(S•Meter) is connected.

REPEATER: Displays status of Repeater paring / Gateway join.

Status	Description
OFF	Gateway and Repeater are not conected.
AMBER(Blinking)	Gateway and Repeater are in unparing.
GREEN (Blinking)	Gateway and Repeater are in paring.
GREEN (ON)	Gateway and Repeater are connected.

INTERNET: Displays status of network connection.

Status	Description
OFF	No Connection (Network)
AMBER (ON)	Only connected to the local area network.
GREEN (Blinking)	Connecting to network by WPS.
GREEN (ON)	Network connected

INVERTER: Displays status of Micro Inverter communication.

Status		Description
OFF		No Connection (Micro Inverter module)
AMBER (Blinking)	Scanning Micro Inverter modules. No Micro Inverter module has been detected.
GREEN (Blinking)	Scanning Micro Inverter modules. One or more Micro Inverter module has been detected. $ \\$
GREEN (ON)		Communicating with all registered Micro Inverter modules

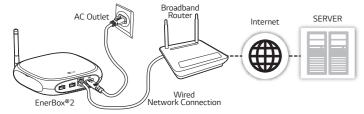
- **(6)** WPS/AP button: Press the button briefly to use the gateway as an access point. Press and hold the button for more than 3 seconds to connect to the Wi-Fi network with WPS function.
- [7] PARING button: Press the button briefly to connect the gateway and repeater. If the connection failed, press and hold the button for more than 3 seconds to reset and try again.
- [8] GATEWAY/REPEATER switch: Switch the operating mode to G (Gateway mode) or R (Repeater mode).
- **9 USB ports**: Spare ports (for communication module expansion)
- 10 ETHERNET port: Connect to the network router using supplied LAN cable.
- 11 POWER/PLC port: Connect to a power outlet with supplied AC cable for power supply and PLC communication.

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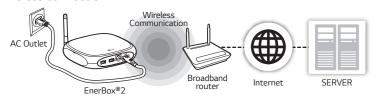
Connect the EnerBox®2 to the broadband router with one of the methods described in this quide. Refer to the installation quide provided separately for more details about installation.

Wired connection



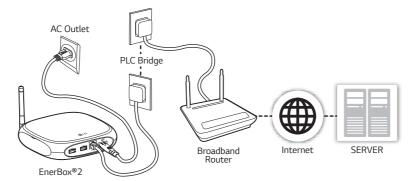
- 1. Connect the POWER port of the EnerBox®2 to AC outlet by using supplied AC cable.
- 2. Connect the ETHERNET port of the unit to your broadband router by using supplied LAN cable.

Wireless connection



- 1. Connect the POWER port of the EnerBox®2 to AC outlet by using supplied AC cable.
- Press and hold WPS/AP button for more than 3 seconds and also press the WPS button on your broadband router. Contact service center when wireless connection fails.

PLC Bridge connection



- 1. Connect the POWER port of the EnerBox®2 to AC outlet by using supplied AC cable.
- 2. Connect the ETHERNET port of the EnerBox®2 to a PLC bridge port by using the supplied LAN cable.
- 3. Connect the broadband router to a PLC bridge port by using a LAN cable.

Web Monitoring

EnerBox®2 communication gateway is designed to collect information of energy production and send it to server. So that user can monitor the energy production status in the web browser on your PC or Mobile device through the internet.

- 1. On your internet-connected PC or Mobile device, open a browser.
- On your browser, visit LG EnerVu page at http://enervu.lg-solar.com.
 You need to create an account for web monitoring. Follow the instructions of website.



Troubleshooting

For problems with the gateway, follow the troubleshooting guide below. If the problem is still not solved, unplug the gateway and contact the service center. (1-888-865-3026, lg.solar@lge.com)

LED Status	Solution
INTERNET LED (AMBER)	The gateway is connected to Home AP, but the Home AP does not connected to the internet. Check the internet connection of the Home AP. If the problem is still not solved after checking, contact the service center.
INVERTER LED (AMBER)	The gateway cannot communicate with one Micro Inverter or more. It may happen occasionally depending on the network condition. If this symptom continues more than an hour, contact the service center.
INVERTER LED (OFF)	If the LED is turned off before sunset, the Micro Inverter is not communicating. Contact the service center.

- It is recommended to install the EnerBox®2 near the distribution box for stable communication.
- The EnerBox®2 will not log energy production, if the EnerBox®2 is turned off or AC cable is disconnected.





