>Plug&PlaySolarKits

Solar for Everyone.

Powered By



Easy Plug Ground-Mount



Disclaimer of Liability

The use of this manual and the conditions or methods of installation, operation, use and

maintenance of the Plug & Play Grid-Tied Easy Plug unit is beyond the control of Prometheus Solar. Prometheus Solar does not assume responsibility and expressly disclaims liability for loss, damage or expense, whether direct, indirect, consequential or incidental, arising out of or anyway connected with such installation, operation, use, or maintenance. Due to continuous improvements and product updates, the images shown in this manual may not exactly match the unit purchased.

Contact Information

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INTRODUCTION

The Easy Plug Ground Mount is a solar energy appliance that provides easy, affordable and portable grid-tied solar power to supplement your home or business energy needs through the use of an outlet. The system can be as small as one solar panel or as large as the user desires (within NEC code requirements), simply by purchasing additional "Add-On" panels. The Easy Plug can be set up in almost any sunny spot and can be moved to new locations easily, making it perfect for those who rent or intend to relocate. Plug and Play has eliminated all the difficult, frustrating and confusing aspects of home solar! The system is easy to install and there's no need for professional installation.

IMPORTANT SAFTEY INFORMATION

Plug and Play Solar Kits makes every effort to make its products as safe and reliable as possible. The goal is to have satisfied customers who enjoy their Easy Plug solar kits for years to come. However customers are required to read the following warnings and disclaimers pertaining to our products and their use:

- Plug and Play's Easy Plug solar kits are subject to all applicable local codes and the National Electric Code (NEC), ANSI/NFPA 70. Check with your local permitting authority prior to performing any electrical installations including the installation of your Plug and Play Solar kit. Additional requirements for installing your Plug and Play Solar kit may be levied by your local permitting authority. It is your responsibility to verify all code requirements with your local authority prior to purchasing your Plug and Play Solar kit.
- Plug and Play's Easy Plug solar kits are subject to all interconnection requirements levied by your local electrical utility company. It is your responsibility to ensure your Plug and Play Solar kit meets all requirements for interconnection prior to purchase. You must also verify the rules and regulations in regards to net-metering agreements and excess power generation from your Plug and Play Solar kit. Grid interactive solar devices such as the Plug and Play Solar kit that are not pre-approved and/or inspected by your local utility may result in fines or even permanent service disconnection from the electrical grid. Plug and Play Solar Kits assumes no responsibility for fees, fines or electrical service interruption as a result of the interconnection of your Plug and Play Solar kit.
- Plug and Play Solar kits have been built as an appliance with the intended purpose of gridtied solar energy production. Any use other than this voids all warranties and Plug and Play Solar Kits accepts no responsibility for any adverse outcomes.

The outdoor outlet used to plug in the Plug and Play Solar kit(s) **MUST** be a dedicated outlet on its **own dedicated 15A or 20A circuit**. This dedicated circuit and outlet should be installed by qualified and/or licensed personnel only. **No other loads or outlets are allowed on this dedicated solar circuit!** The maximum allowed number of panels for each outlet/breaker is six



units which includes the Lead Unit and up to five Add-On units. For every six units purchased, an additional dedicated 15A or 20A circuit and outdoor outlet must be used to accommodate the additional units.

- Some GFCI(Ground-Fault Circuit Interrupter) outlets can be sensitive to the power produced by the Easy Plug unit. To avoid nuisance GFCI tripping, it may be necessary to replace an existing GFCI outlet with a standard 15A or 20A outlet.
- Do not plug anything into your Plug and Play Solar Easy Plug kit other than additional Plug and Play Solar Easy Plug kits as described in the product Step by Step Set Up section of this manual.
- Plug and Play Solar Kits Easy Plug ground mount units are not intended for installation on pitched roofs. Roof mounting can be dangerous and difficult; Plug and Play solar accepts no responsibility for any injuries sustained during installation. Plug and Play Solar Kits accepts no responsibility for any damage to the unit or your property during the product installation.
- Do not mount Plug and Play Solar kits Easy Plug units to any unstable structure. Plug and Play Solar Easy Plug kits are intended for ground, flat-roof and deck use only. Mounting a Plug and Play Solar Easy Plug kit to any other structure voids all Plug and Play Solar Kits warranties and Plug and Play Solar Kits accepts no responsibility for any injuries or damage that occurs as a result of doing so.
- Do not submerge any portion of the Plug and Play Solar Kits in water. All Plug and Play Solar Easy Plug kits are intended for outdoor use and are created to withstand adverse weather conditions. However no part of the Plug and Play Solar Easy Plug kit is intended for submersion in water. Please monitor your Plug and Play Solar Easy Plug kit during wet weather to ensure that no part of the unit is submerged in standing water, especially all power cords. Complete submersion in water voids all warranties.
- Any mechanical or electrical modifications to the Plug and Play Solar Easy Plug unit(s) voids all warranties.
- Do not attempt to move a Plug and Play Solar Easy Plug kit unless you are physically able to do so. Plug and Play Solar Easy Plug kits are made of high quality materials that can be heavy and awkward to move. Plug and Play Solar Kits accepts no responsibility for any injury sustained while working with or moving the unit(s).



THE PLUG & PLAY SOLAR KIT SYSTEM

The Plug and Play Solar Easy Plug Kits is the first solar product of its kind to combine interactive features and simplicity of use. Each unit arrives fully assembled and only needs to be plugged into a dedicated outdoor outlet in order to start producing solar power! Once it's plugged in, the user can truly "play" with the unit by using the interactive wireless meter to help find ideal placement and tilt-angles.

Each Easy Plug Lead Unit comes with a wireless meter that has three displays. The displays show:

- 1. Kilowatts generated
- 2. Amount of carbon dioxide reduced
- 3. Average dollars saved.

This innovative interactive feature makes it easy for the user to adjust the placement and tiltangle of the panel to find the optimum output for the panel(s) – something that is not possible with traditional rooftop solar.

The Plug and Play Solar Easy Plug unit is similar to any other appliance that plugs into a standard household 120Vac outlet. The only difference is that the unit *produces* power instead of consuming it! When plugged in, a single unit will provide up to 240 Watts to anything currently using power within your house. For example, if the house is consuming a total of 1,000 Watts of power, the Easy Plug unit will provide up to 240 Watts of that power, reducing your electricity from the utility company to only 760 Watts. The Easy Plug therefore slows your meter and reduces your electricity bill. In some conditions, it may be possible for the Easy Plug unit to provide enough power to stop your meter or even spin your meter backward! In this case, you can consult your local utility about selling power back to the utility company or receiving credits on the power you've produced. This is often called "net-metering." In order to net-meter, you may need to have your utility's approval prior to connecting your Easy Plug unit.

- The Easy Plug unit is perfectly safe when unplugged from the dedicated outlet. The unit is designed to immediately shut down when unplugged.
- All electrical components contained within the Easy Plug unit are individually UL listed. The unit as a whole is not UL listed.
- The Easy Plug, when installed in an ideal shade-free area in Arizona, will produce an average of 1.2 kWh's a day, or 438 kWh's per year. This is enough energy to offset a large capacity refrigerator or 20 5-Watt LED light bulbs for 12 hours per day.
- Up to six Easy Plug units can be connected together on one 15A or 20A dedicated outdoor outlet. Consult Plug and Play Solar Kit's technical support if you would like to use more than six units.



INSTALLATION

PRIOR TO INSTALLATION

IMPORTANT NOTE: PLEASE DO NOT PLUG THE UNIT INTO OUTLET UNTIL SET UP IS COMPLETE!

Upon delivery: Each Plug and Play Solar Easy Plug unit is packaged securely in recyclable materials and shipped via FedEx. It is important to visually inspect each unit upon arrival. Please examine each box for any visible damage while the FedEx driver is still present. In the case of visible damage, you'll need to report it right away to the FedEx driver. Although damage is rare, all boxes must be opened and the product inspected within 24 hours of delivery, so please check it out right away! Should there be any hidden damage from shipping, Plug and Play Solar Kits must be notified within 24 hours by email so that we can make a claim with FedEx and have a replacement unit on its way as quickly as possible.

PLEASE NOTE. WE WILL NEED PHOTOS OF THE DAMAGE TO COMPLETE THE CLAIM!

Items Required For Installation:



INSTALLING THE SOLAR PANEL(S)

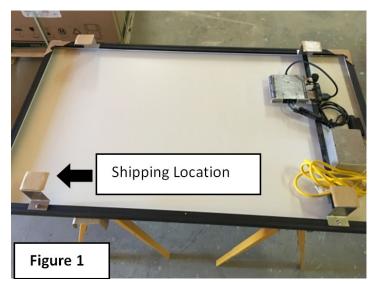
READ THROUGH ALL THE DIRECTIONS BEFORE PROCEEDING WITH STEP 1.

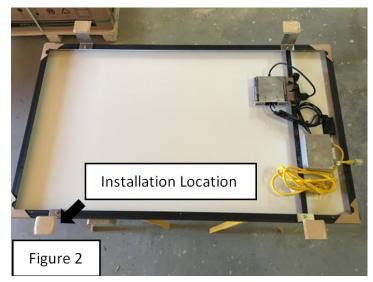
Selecting a location on the ground. The ideal location is a flat surface, free of shade, as close as possible to a dedicated outdoor outlet.

1. **Selecting a location on your roof:** The ideal location is a flat surface, free of shade, as close as possible to a dedicated outdoor outlet.

NOTE: It is highly recommended that you perform these setup instructions with two people.

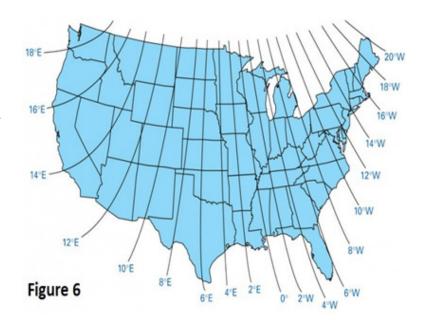
- 2. Remove the unit from the box and remove all packing materials.
- 3. Place the unit(s) on the ground. Lay the unit glass-side down being very careful not to damage the glass.
- 4. Find the bolts which attach the "Z" brackets to the base of the unit. The unit is shipped with the legs attached to the base in the "shipping" position. (See Figure 1).
- Loosen the bolts and rotate the "Z" brackets so that flaps are facing out and tighten them. (See Figures 2)feet





Solar Set-Up

Point the front true south, as this direction provides the most sunlight during the day. If you need information on how to find true south for your location please visit http://www.solaripedia.com/files/447 and use the chart provided below.(See Figure 6)



2. Remove the zip ties on the 30' cord and plug the Easy Plug unit into a dedicated outdoor weatherproof outlet like the one shown below. (See Figure 8) WARNING! Ensure there are no other electrical loads connected to the circuit your Easy Plug unit is plugged into. Connecting loads to this circuit may result in fire or damage to the circuit. Refer to the "IMPORTANT SAFETY INFORMATION" in this manual for more details.



2. After an NEC required five minute wait period, your Easy Plug unit will sync with the utility grid and begin producing clean electricity for your home. You can now use the included wireless monitor to analyze the performance of your Easy Plug unit. (See Figure 9) Please refer to the included ELITE Wireless Electricity Monitor quick start guide for information on how to set up and use your wireless monitor.



INSTALLING ADD-ON SOLAR PANEL(S)

- For each additional Easy Plug Add-On unit, follow steps 1-11 for setting up the unit. Make sure to place each additional unit so that it is in reach of the previously placed unit and does not cast shade on any of the other units.
- 2. Once all units are set up, begin connecting the units together. Remove the protective cap from your Easy Plug female receiver plug.
- 3. Plug the Add-On unit's male plug into the Easy Plug unit's female connector.
- 4. Repeat steps 1-3 until all Add-On units are connected.

NOTE: Only the Easy Plug Lead Unit should be connected into the dedicated outlet. Add-On units simply daisy chain to one another and connect into your Easy Plug's female connector.



Male plug with clip facing up to match with female socket



Male Plug



Female Plug

Grounding

On the add-on unit you'll notice a length of green wire. This wire needs to be connected to the lead unit in the same fashion as the one on the add-on unit. This will ensure that the units are grounded to each other and ultimately your house.



ENERGY MONITOR SET UP

LINKING TRANSMITTER AND MONITOR

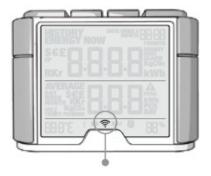
Note: We pre-install the units and link, so you should just have to plug in the Efergy energy monitor

- 1. Ensure three AA batteries are inserted in the wireless energy monitor. Observe polarity when inserting the batteries.
- 2. Press the **link** button on the back of the wireless energy monitor and hold for two seconds. The transmission signal symbol will flash for one minute or until the transmitter and monitor are linked.
- 3. While the transmission signal symbol in the display flashes, push the **link** button on the transmitter and wait until the transmission signal symbol becomes solid.

Note: The default value for the transmission frequency is ten seconds. This means the transmitter is sending information to the display every ten seconds. You can change the frequency from 10s to 15s or 20s by pushing and holding the transmitter button for two seconds.



Potable display unit link button



Transmitter link button



Transmission Signal Symbol



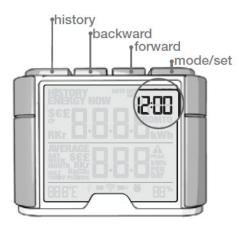
Dashes indicate signals not linked

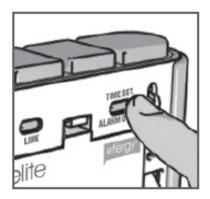


The elite monitor needs to know the time and date in order to provide you with the correct information.

Set the time and date as follows:

- 1. On the reverse of the monitor you will find the **time set button**. Press and hold for two seconds. The time set up will flash on the monitor.
- 2. Set the hour to the correct time by using the **backward** and **forward** buttons. Press the **mode/set button** once to save the hours. Repeat for minutes, using the **mode/set button** to confirm. Once the correct time and date have been set, push the **history button** to save and move onto the date set up.
- 3. Set the month by using the **backward** and **forward** buttons. Press the **mode/set button** to confirm and move onto the day and year. Repeat the same process and then press the **mode/set** button to save and exit.





Hold for 2 seconds

TROUBLESHOOTING TIPS

WIRELESS ELECTRONIC MONITOR

If I remove the batteries will I lose the information on the monitor?

The monitor has an internal memory, so if you need to change or remove the batteries and the information stored on it will not be lost.

How do I reset the monitor (clear the stored data and start again)?

Press and hold the mode/set and history buttons simultaneously for two seconds.

How far does the device transmit?

The transmitter works up to around 230ft/40m within the home. The 433MHz range is well suited for in-home use. This can cover three floors and is also ideal for buildings where electricity meters are situated outside.

I have three dashes (- - -) showing on the monitor. What does this mean?

Move the monitor closer to the transmitter and press the link button. If the dashes remain on the monitor this would indicate that the transmitter and receiver are not communicating. Please contact our customer services to help solve the problem.

The backlight appears to work sometimes and then not others. Is it broken?

No. The backlight is on a timer to save battery life. The monitor should work at darker periods during the day when any buttons are pressed. The LED backlight will be activated from 18:00 to 6:00 hours.

For more information about the elite go to www.efergy.us



CUSTOMER SERVICE

WARRANTY

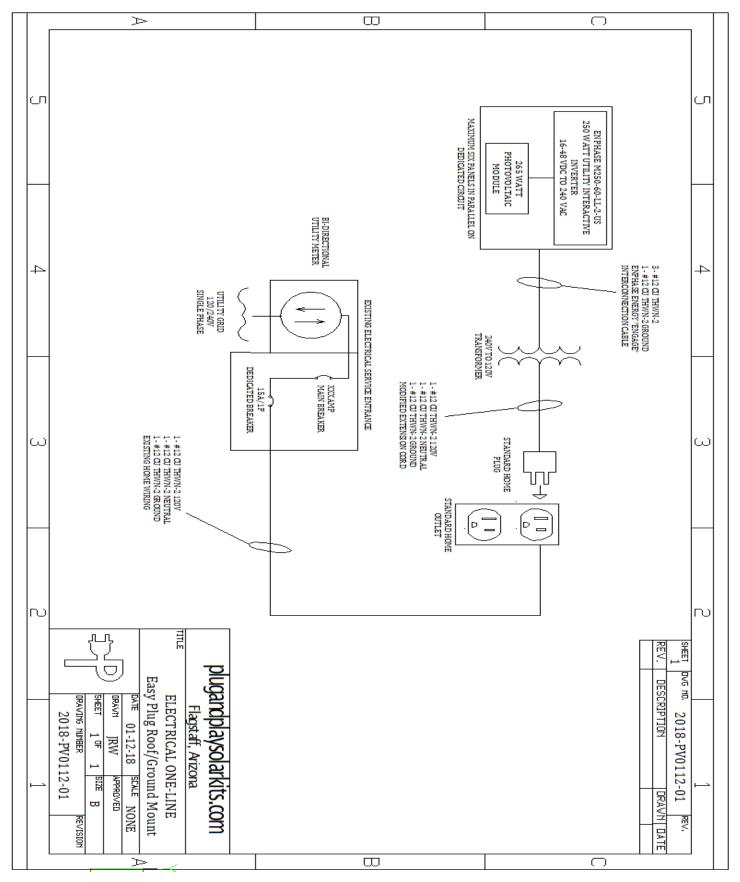
25 year manufacturer's warranty on Module and Microinverter.*
3 year product warranty on parts and workmanship.*

*The above stated warranty does not apply to products which have failed due to improper installation, misuse, alteration, unauthorized repair or modification, or acts of God. Purchaser is responsible for transportation and handling costs of the equipment to and from the distributor or dealer for warranty replacement or repair. The above warranty does not include incidental or consequential damages and Prometheus Solar disclaims any liability for any such damages. All implied warranties, if any, are limited induration to the above stated warranty period. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages or a duration for an implied warranty, so the above limitations may not apply to you. All liability is limited to the original purchase price of the Module.

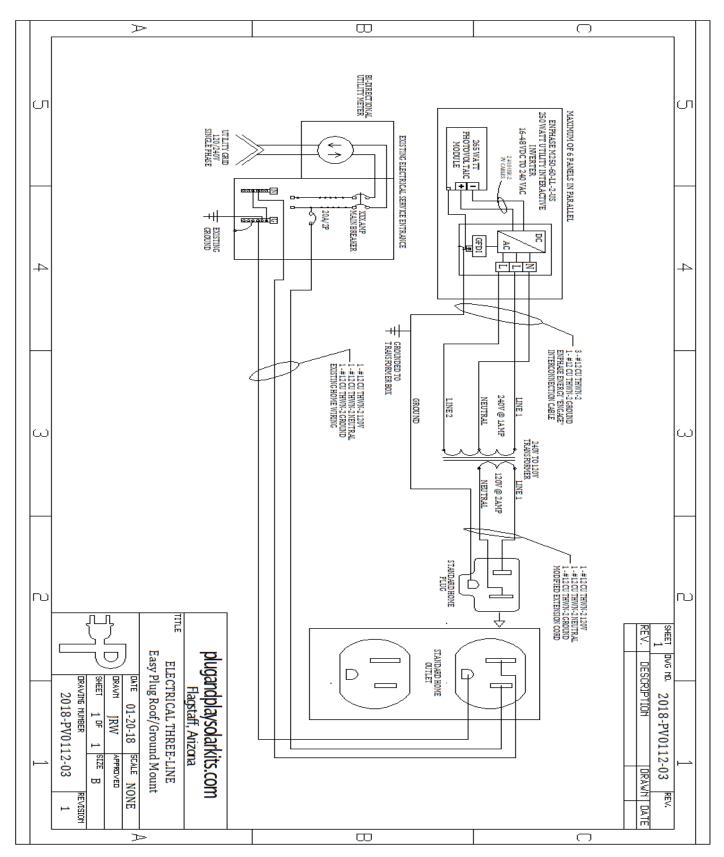


Electrical Drawings

1-l ine



3-line



Designed and assembled in Flagstaff, Arizona



11950 N US Hwy 89 ~ Flagstaff, AZ 86004 1.800.347.2291

www.plugandplaysolarkits.com



Email your questions to:

info.usa@efergy.com for US sales@energymonitoring.ca for Canada

Email your technical questions to:

help@efergy.com for US support@energymonitoring.ca for Canada We aim to answer all your emails within 48 hours www.efergy.us for US www.energymonitoring.ca for Canada



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