



201301

Plug-Out Basic 1kw Setup Instructions

WARNINGS:

This high power and high voltage electrical products can be harmful to persons and vehicle if misused. The user assumes all liability for the Plug-Out device, personal injury, and the host car. Proceed at your own risk.

This Plug-Out Island product is for OFF-GRID use.

Do not connect to Grid or house wires, as it may cause damage to the device or utility workmen.

Assumptions:

Plug-Out Island products are intended for use on Prius

or other Synergy-based drive systems for the 1kw model. Other Hybrid vehicles must consult ConVerdant for Vehicle compatibility. Use on other hybrids or cars not approved by ConVerdant, is at the sole responsibility of the user.

Package Contents:



A. Clip-on Cables

B. Inverter 1kw [120v/60hz/max 9amps]

C. Power Meter [[120v/60hz/max 9amps]

Not included, but also needed are standard power strips and Extension Cables from the Plug-Out device to the site appliances. Recommended that all Extension Cables and power strips be rated for 15 amps.

Set Up and Use:

1. Unpack the Power-Out Island components, Connect the clip-on cables to the Inverter; red cable round tab onto the red stud of the inverter, black cable round tab onto the black stud on the inverter.

2. With car and inverter still off, connect the red cable clip to the red [+] 12v battery terminal, and the black cable clip to the black [-] terminal of the 12v battery. The Prius 12v battery is located in the trunk right rear area “nook”, under the nook-floor cover. Bend the red battery terminal cover back to expose the [+] battery terminal. Be careful, the cover may break off at temperature below freezing. Do not let the red cable metal parts touch any part of the vehicle frame.
3. Connect a 120v/15a extension cord to the inverter and lead to a suitable [protected and dry] site of use. Attach the power meter to the site-end of the cord, and attach a power strip to the power meter. This provides a central power hub to add appliances to the emergency power system and monitor the loads added with each device. Do not yet connect appliances to the main hub.
4. Be sure the car space/tailpipe is well ventilated. Turn on the Hybrid and leave in Park. Be sure the car remains in Park. Turn off any car accessories; like AC, fans, radio, lights, etc.
5. Turn the inverter on.
6. Replug appliances into the main power strip/hub and monitor power use buildup. Be sure you know the power ratings of each appliance before it is added to the system, and pre-calculate which appliances can be added. This Plug-Out Island product series provides single phase 120v power only. Do not connect any 220v or other appliances that may cause the total power needs to exceed the 1kw system rating. Add the most power hungry appliances first to the main power hub, then down to the least power-hungry. Use additional extension cords as needed to connect the appliances to the main power hub.

The 1kw product is rated for 1kilowatt[kw]/9amps continuous use and up to 2kw/18amps for 10 seconds [surge current]. However, continuous use at the continuous rating is risky, given the random use of attached appliances and their surge loads. So it is recommended that the user limit maximum continuous power use to about 750watts.

Possible connections: Low power appliances like refrigerators, freezers, CRT/LCD/OLED TVs, computers, network routers, phone-battery chargers, etc.

Connection with planning: Non-electric house heating system and water heater [oil, nat-gas, wood boiler], but this must not use electricity to make heat. Consult certified electricians on how/if to connect to the house heat system.

DO NOT CONNECT: To anything that may cause connection to the utility grid, however inadvertently; 220v appliances like well pumps, clothes dryers, electric stoves, home electric heating systems. etc; Power hungry 120v appliances like power tools, clothes washers, coffee makers, hair dryers, microwaves, plasma TVs, etc.

System Tear-Down:

1. When emergency power is no longer needed, turn off the inverter first [before the car]
2. Turn off the car.
3. Replug the appliances to the house outlets.
4. Remove the extension cables.
5. Remove the inverter and stow with components for future use.