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## PlugOut-4 vs Power Station Comparison

A new product category, **Power Stations**, offers a battery, charger, inverter and sockets to store and deliver AC power in a portable package. Smaller power stations offer limited energy storage and inverter power. Larger wheeled carts offer more power and solar options at bigger size, weight, and prices.

However, using a **PlugOut** or any inverter with a hybrid car offers an alternative design for mobile power and a great leap over power stations. Electrified cars have huge energy storage reservoirs and inverters can be sized to suite the power need.

The Plug-Out with any Toyota/Lexus hybrid car combo makes a phenomenal power source. Think about it. The hybrid or plugin (e-car) is already a great DC generator with motor-generator keeping the hybrid battery full. The Plug-Out Inverter adds high quality, pure sine wave, AC/DC power output from the hybrid's battery. The combo offers quiet, efficient, maintenance-free, always starts power and enjoyment.

- PlugOut Power's new **4kw inverter** is small enough to mount in the car's trunk.
- A smaller 12v inverter can offer AC power up to 1kw using the e-car's 12v system.

The uses for mobile systems are many: Camping, worksites, tailgating, sidewalk and field events [mic/music], etc. Anywhere power is needed but the grid is not available. Power and stored energy needs can vary by use, but more power and stored energy offer greater ease and enjoyment. For instance:

	Needs	Wants
• Low: a few lights and accessory charging,	500w	1kw
• Medium: with food prep and/or entertainment devices	1kw	2kw
• High: with cooking ability.	3kw	5kw

Emergency power for the home is more like the last category and is beyond the capacity of most power stations, except for very minimal short term use. The PlugOut with hybrid/plugin car, however, offers much larger power and stored energy in a small package and can be quite useful for emergency situations.



PlugOut 4kw-120v



PlugOut 5kw-120/240v Split Phase

We offer some numbers on the next page for your comparison.

Compare power stations vs a Hybrid + inverter design:

The low power application only needs a 1kw 12v inverter. Note the 12v inverter is not supplied by PlugOut Power, but it can be bought from many 3<sup>rd</sup> party sources. Due to car 12v constraints, PlugOut Power does not recommend more than a 1000w inverter on a 12v system.

The competing Power Stations are from Yeti, Jackery and Generark website with prices [4/2021].

<u>Small Systems &lt;= 1kw:</u>	Cost approx	Power [watts]	Storage [wh]	Weight [lbs]	Space [ft3]
Yeti 500 Power Stn	\$700.	300	500	13	.4
Jackery 500	\$450	500	500	13	.5
Jackery 1000	\$1000	1000	1000	22	.75
Generark 1	\$1100	1000	1000	22?	.75

Vs:

<b>12v Inverter 1000w</b>	<b>\$250</b>	<b>1000</b>	<b>70,000</b>	<b>15</b>	<b>.3</b>
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If you have a hybrid or plug-in car, there is a HUGE Advantage to using just an inverter.

If you have a Toyota or Lexus hybrid/plug-in, the advantages with PlugOut are even greater.

<u>Larger Systems &gt; 1kw:</u>	Cost approx	Power [watts]	Storage [wh]	Weight [lbs]	Space [ft3]
Generark 2 [1x2]	\$2200	2000	2000	45	1.5
Yeti 1500	\$2000	2000	1500	45	1.1
Jackery 2000	\$2100	2200	2000	43	1.3
Yeti 3000	\$3200	2000	3000	70	1.4
Yeti 6000	\$5000	2000	6000	107	1.6
Generark 3 [1x3]	\$3300	3000?	3000	67	2.2

Vs:

<b>PlugOut 4 +pigtail</b>	<b>\$2500</b>	<b>4000</b>	<b>70,000</b>	<b>30</b>	<b>.5</b>
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**note: the 4kw PlugOut 4 can install/rest inside the Toyota/Lexus sub-trunk area.**

Adding solar options to a Power Station adds some extra energy for storage, but adds much more cost, weight, space and setup requirements.

A PlugOut car offers far more power and energy for the same or lower cost, does not need extra batteries or solar panels, and is just as quiet. Plus, a PlugOut car can also supplement solar panel and battery installs with charging from the car as needed.

**From the comparisons above, anyone with a Toyota/Lexus hybrid has a HUGE advantage by using a PlugOut or 12v inverter in cost, weight, power, ease of setup, and especially in energy storage vs a Power Station.**

No matter the use, more energy storage means less concern about energy availability. More power means less concern over what appliances to use. Replacing open fire with electric for light, cooking and heat reduces your site and health damage risks. Now add phones-computers-TV-sound-fans-fridge and maybe tools/pump, etc.

For longer camper/vacation/cabin use, PlugOut inverters can be mounted on a camper, trailer or RV, or cabin, even combined with solar panels and solar battery. Using the PlugOut [+ hybrid car] to extend solar batteries adds a whole new dimension to remote energy use.