

9/28/2024

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gpu-ground-power-unit-for-remote-power-home-applications

Ground Power Unit GPU Powered by Lithium Ion Batteries



This webpage QR code

Structured Data

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#groundpowerunit #solar
 #renewableenergy #solarpower
 #gpu #portablepower.

Company Name: Infinity Turbine LLC
 Product: GPU Ground Power Unit Lithium Powered Applications: Remote power. Portable power. Power for boats and contract workers on jobsite. Remote ice making. Remote cooking.
 Uses: Portable Lithium battery power.
 Power: DC to AC 120V 60 hertz single phase.
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PDF Version of the webpage (first pages)

The GPU Ground Power Unit for Stand Alone Portable Power

Infinity Turbine is developing a home based GPU (ground power unit) that is based on lithium batteries.

This cart mounted system is easy to move around to the jobsite, home, mobile, or marine. Hook up your PV panels, wind generator, backup generator, or grid power to charge.

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Ground Power Unit

The goal of the Ground Power Unit is to provide a readily accessible, modular, ready-to-power solution for remote power. Power is a basic necessity.

This solution gives you plug-and-play peace of mind that you have power, when and where you need it. While solar and wind renewable energy can charge the lithium batteries, you also have the option for shore (grid) based charging. Connectivity is essential for knowing system diagnostics and energy flows. Components communicate with each other and with you on your smart phone (or computer) via Bluetooth.

The hand truck version GPU can be used in your garage at home, while camping, rolled into the RV, or even on your boat.

It's so portable you can use it at your jobsite. For larger applications consider our cart mounted 12-24 kW capacity system, which is mounted on heavy duty casters and fits through any standard door, hallway, or elevator.

Use it to charge your Tesla.

Power When and Where You Need It

2.4 kW of 120 V AC. 12V DC. Plenty of AC power outlets. Shore power. Charge with solar PV, wind, ORC, or other renewable energy (up to 150 Volts DC input). Charge with 120V AC grid or shore power.

Hand Cart Mobile GPU:

This stand-alone power solution allows you to provide off-grid power for your home, cabin, boat, or remote work site. Because the unit is mounted on a hand cart, you can easily move it from your home to your garage, or to your weekend getaway. We will soon offer a Aviation version, for a GPU for your aircraft, but can also run essential items in your hangar.

Commercial Cart Mobile and Stationary GPU:

This is the larger version of the GPU above. It features a scaleable battery solution on a modular 24 x 48 inch footprint industrial caster-beam cart with heavy-duty industrial casters.

This system fits through any standard door, hallway, and elevator.

Features:

- A. Multiple Charging Sources: Intelligent MPPT solar panel charging, and AC-based charging (via AC generator, AC inverted solar panel, AC wind energy, grid power, shore power).
- B. Pure Sine Wave: The inverter produces pure sine wave AC power.
- C. Multiple Power Output: Standard 110V 60 Hz. Optional 220-240V AC. Optional 50Hz.
- D. SmartPhone Monitoring: Visual battery monitoring on the cart, computer and SmartPhone monitoring via app.
- E. Scalable: The Commercial Cart allows you to add batteries for additional capacity.

Ground Power Unit for portable power solutions

The base hand-cart unit will have two 12V 100Ah Battle Born lithium batteries (1,200 watt hours).

The commercial caster-beam cart unit will have six lithium batteries (6,000 watt hours).

Either version will power a 12VDC/120VAC Dometic cooler, InstaPot Pressure Cooker, Induction cooktop, or other AC appliances.

Power a Eco Habitat With the Solar Electric Ship

With the advent of overpriced and overtaxed land-based accommodations and workspaces, a eco-minded alternative has been inspired by the Swiss lake paddlewheelers. Switzerland and Italy are adorned with many large lakes, rivers, canals, and access to seas and oceans. Yet, finding reasonably priced housing and workspaces are a challenge. While this is not a solution for many, for a few it provides a environmentally friendly alternative to not only access the region, but make money at it. The concept of a efficient multihull that is alternatively powered by the sun and wind may be the answer. Using a modular platform allows this concept to apply for a AirBNB, vacation home, workspace, or even workshop. The portability gives this concept far reaching possibilities. For South Pacific getaways, simply adding stainless steel legs makes this modular platform into a over-water-villa, completely self-sufficient. Most important, this solution is a low carbon emitting, sustainable habitat that can be self-built, or commercially produced. This article examines a self-sufficient habitat that can be applied at land or water.

AirBNB Ship Powered by GPU

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Ice Making using the GPU

On demand countertop ice makers provide an excellent alternative to custom (and expensive) refrigerators and under-counter devices.

They are inexpensive (i.e. fast payback), can use your filtered water, and can be used for peak-shaving large solar outputs during midday, when your lithium battery bank is full and you have extra solar power production.

We also recommend this is when you do laundry, or other power-hungry applications. One solar panel can provide enough output to run a icemaker (and then some).

If you need larger capacities, then simply empty ice into Ziplock bags, and store in your Dometic freezer chest.
