



PALADIN SOLAR DIVERTER & CONTROLLER DEVELOPMENT NEWS

There are 2 major problems with a battery / hybrid inverter solar solution right now.

The first is cost - but that is reducing steadily and will be economic for the average PV equipped household inside the next 1-2 years. Right now you need tax write offs or have a 'security of supply' incentive to justify the cost.

The bigger and more intractable problem with all the major inverter manufacturers' units is the proprietary nature of the interface and the restrictive, generic way that the inverter reacts to household power needs. This 'one size fits all' approach is far removed from the 'use it when you want/need to' approach taken by Paladin and its associated AI / EV charging functions that are in the works for Paladin-6.

Happily we have had a recent breakthrough in solving this problem. Beta testing shows that this relatively simple and effective solution will allow Paladin to control any Inverter / Battery combo and dictate both the output and charge rates in real time regardless of what the Inverter / Charger thinks it wants to do.

Not quite a Vulcan 'Mind Meld', but close; and best of all it doesn't need to change anything inside the Inverter (and thus void guarantees).

This level of control (from Paladin) facilitates using PV / Battery / Inverter combos to leverage wholesale rates (where you can sell at wholesale as well as buy - think EcoTricity - not Flick at the moment).

This is a powerful tactic and with even quite simple AI / Autopilot assistance can drop power bills dramatically over any fixed rate / time based plan. Take a look at Paladin-6 Beta trial rig working on YouTube by searching for 'Paladin DeskTop Dashboard '. There is an explanation video on the same channel if all the concepts are not obvious.

The live stream from Paladin does seem to change YouTube addresses, but currently it is here: <https://www.youtube.com/watch?v=mmmXldK4OuQ>

The AI is currently running 3 separate fixed output inverters and a charger. The new rig uses a single inverter / charger combo with 'Mind Meld' and will be live in the next week or so.

Unfortunately the large (non-commercial) battery pack needs a new BMS for the higher charge rates and is restricted to workshop use until that is installed. This will greatly improve granularity and effectiveness of the selling and buying functions due to its' higher throughput. How much extra that will save over the present setup is questionable though it is well above the 80:20 rule point already.

Paladin DeskTop Dashboard - Live Stream

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