

# Throttled Fronius wastes up to 90 of capacity

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In the diagram below you can see clearly, that in red marked sections the battery did allow a charging current between 73A and 243A. But during both periods the Fronius inverter got limited up to 100%. The deviations on left example were impacted by direct energy consumption. As soon as direct consumption was ended, the limit was reestablished. Right example is much clearer and evident!

Another view on Battery current, Charging Limit and Throttled Fronius Power. During red phase more power could have been loaded into battery, however Fronius got throttled. That view is restricted on second day only (right part of previous diagram).

Although my PV-modules are suboptimally installed with a 17° angle, this week the peak production reached 102% of nominal peak module capacity. Batteries were charged above 160A. Fronius runs at its maximum limit ;-)

Grid setpoint is currently at 80W. I tried different settings between 30W and 200W, but without any effective change in behaviour on my point of view the delayed reactivity could be related with my second post on the Feed-In issue, but I don't think, that this is related to that problem. There is a timely difference up to 45 minutes. In that period there should be a proper communication on Modbus possible.

We have almost the same setup and same suspicion about how the communication works between Victron and Fronius. Could it be the case that Fronius produces equal energy on all the phases, however the zero-feedin misses to regulate properly when the loads are unbalanced? The question here is, why Fronius is lower its production although the battery is craving for energy??

1. Island mode (green area in below diagram) I started the environment disconnected from grid and consumption network. As expected Fronius inverter and MPPT charged full available power into battery.



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