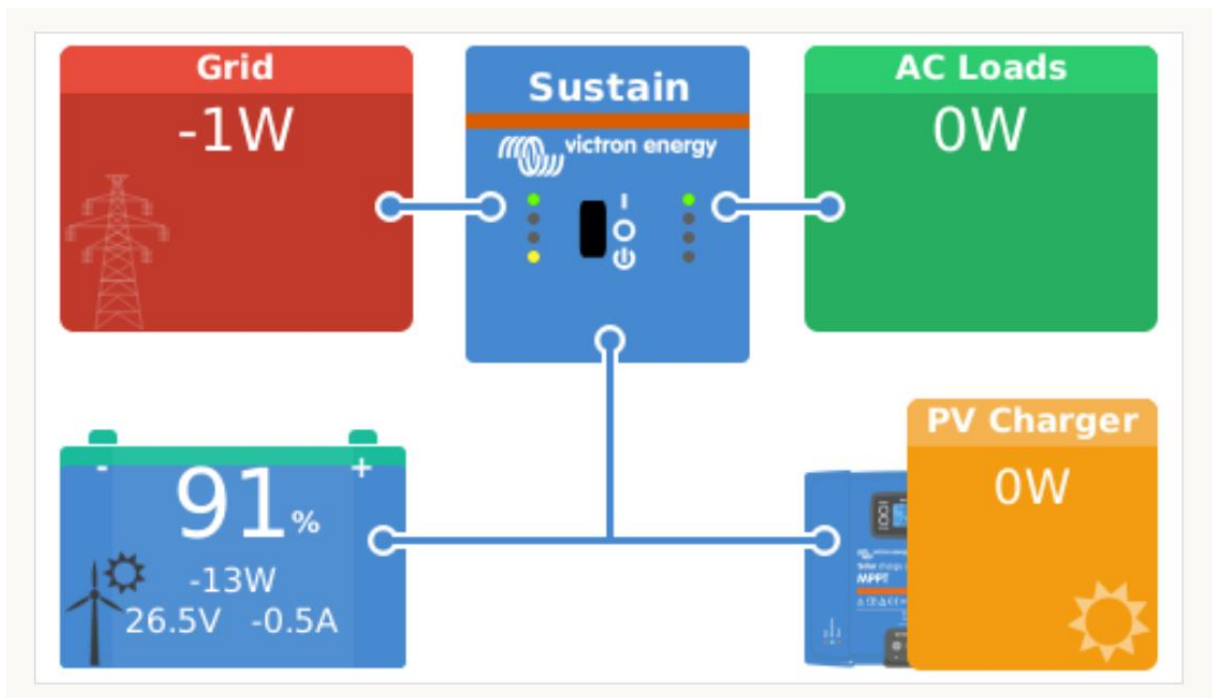
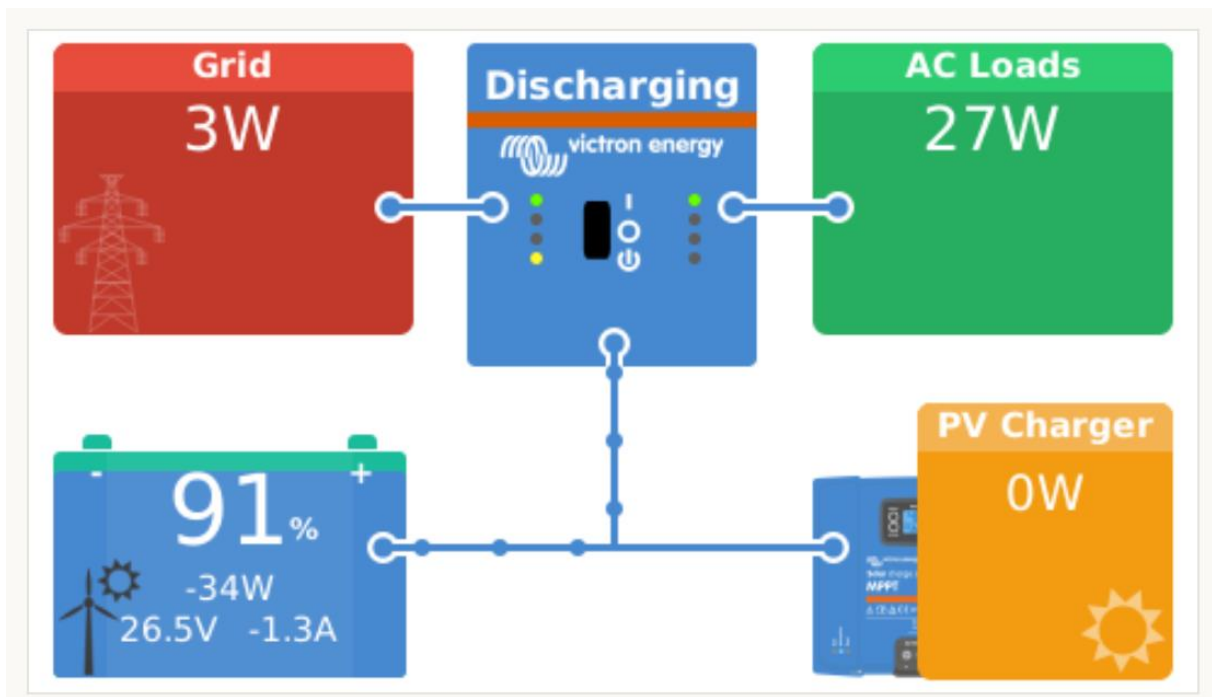


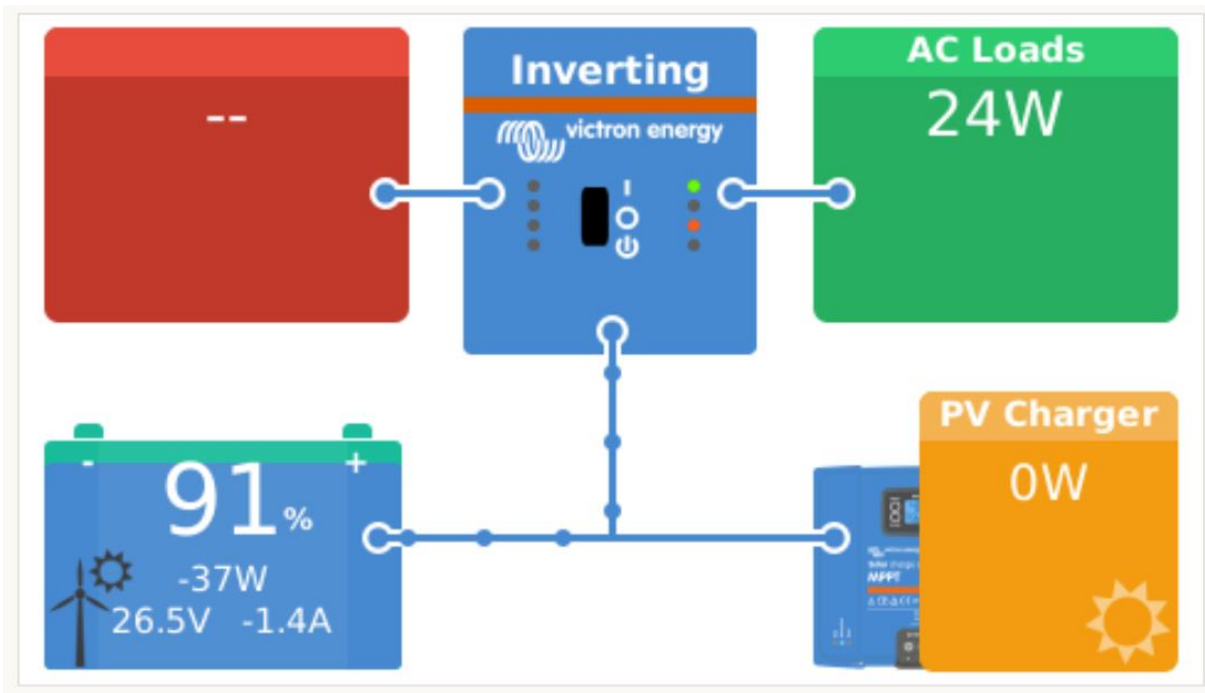
After ~24h, sun already up:



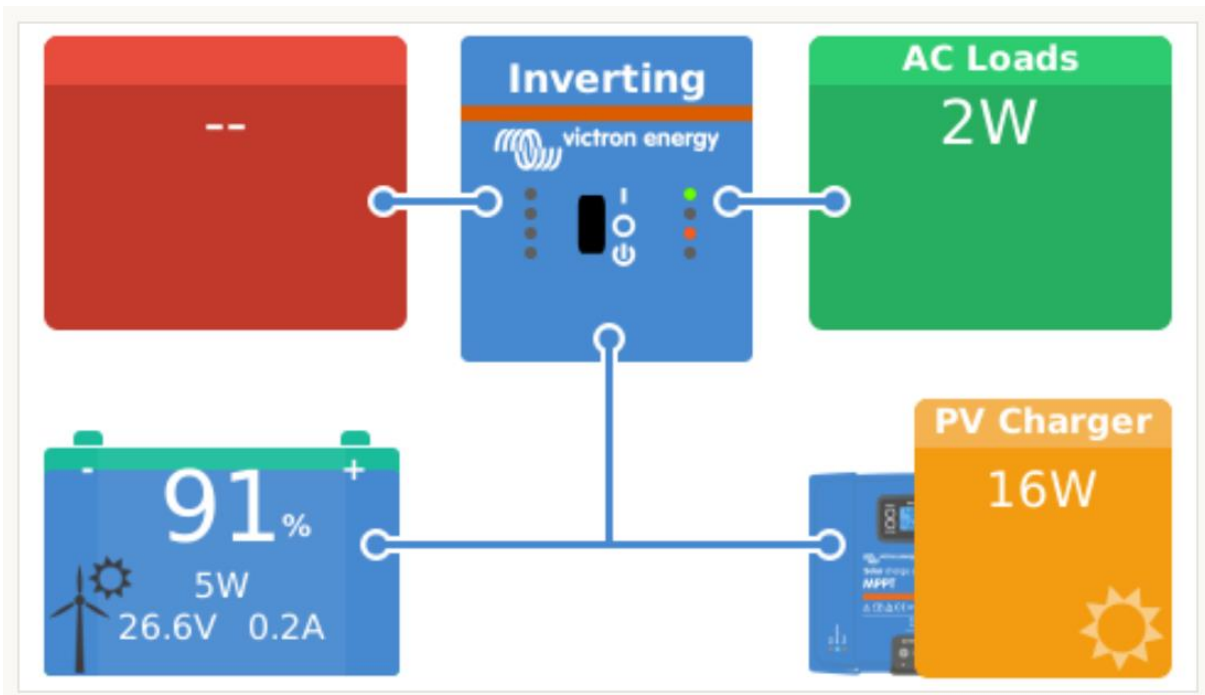
After ~24h, sun already up, with some load:



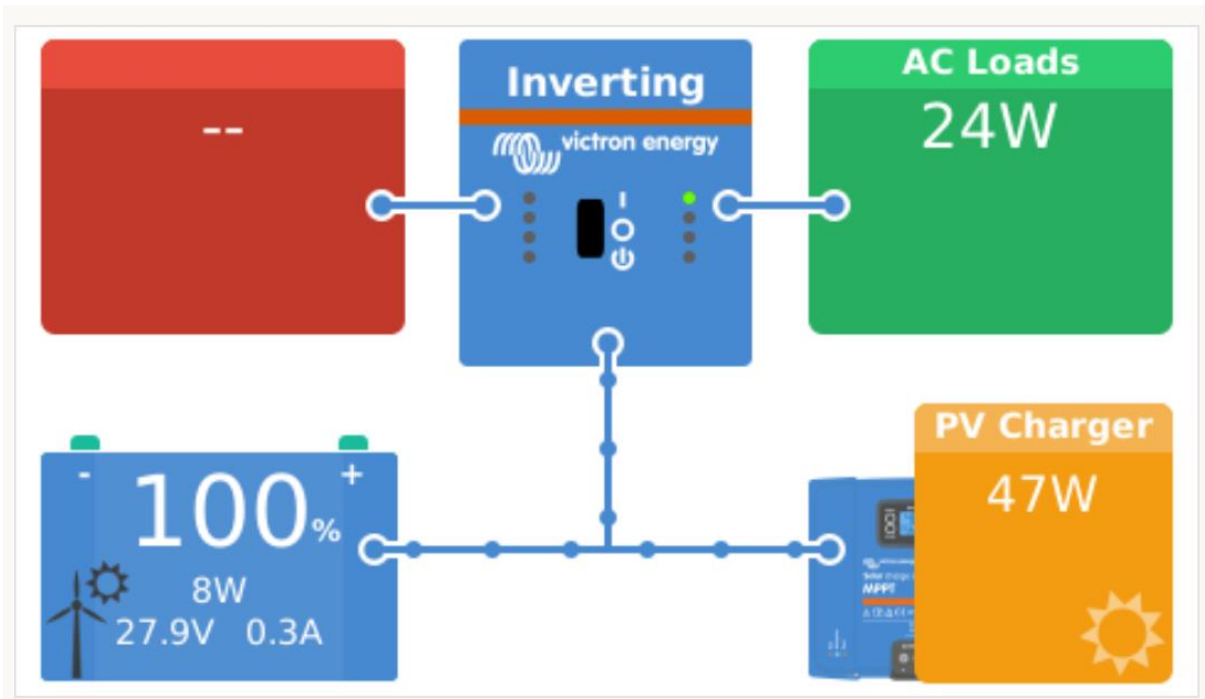
Disconnecting ACin:



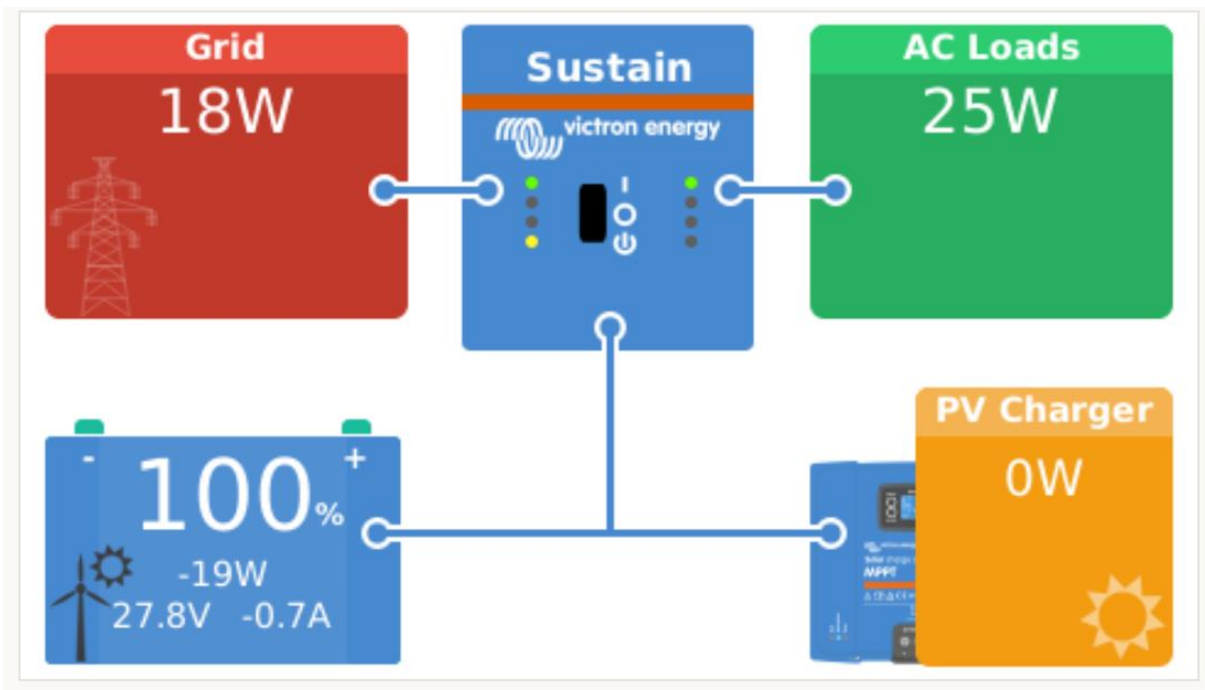
Suddenly, PV was activated (small PV panel attached, later I used a large PV panel), no load:



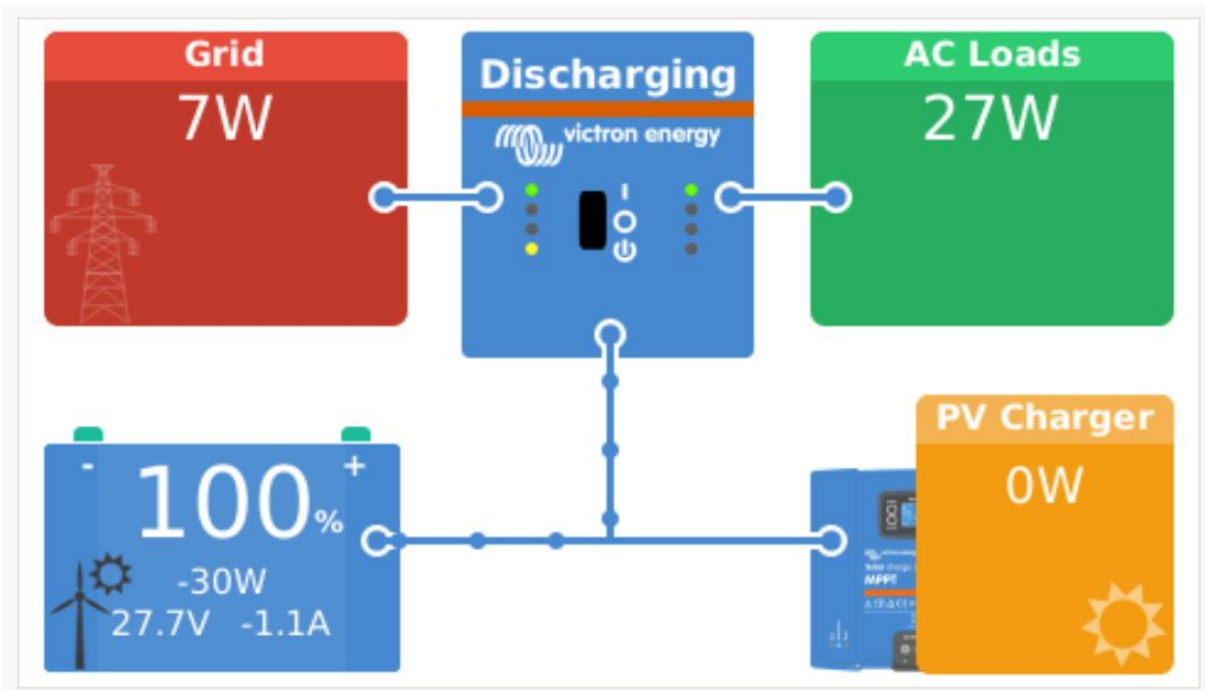
After some time, battery was full (large PV panel which gets “throttled down”), some load:



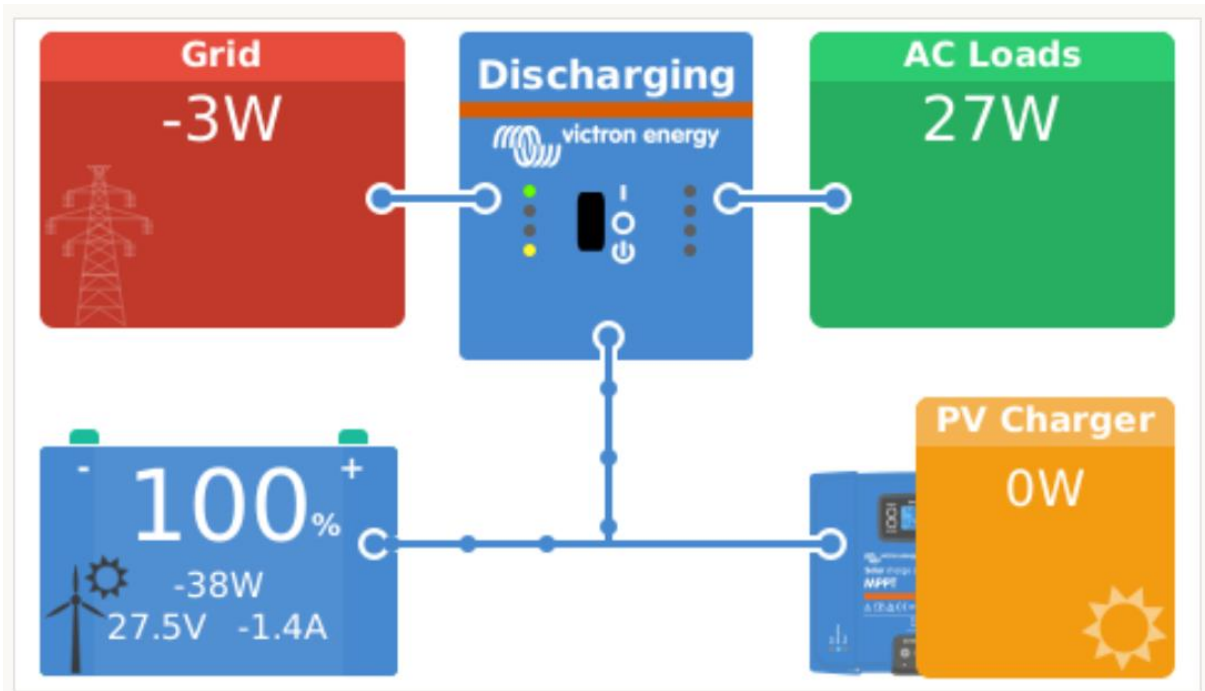
Connecting AC, PV gets disabled again (power to load comes from grid + battery) - inverter:



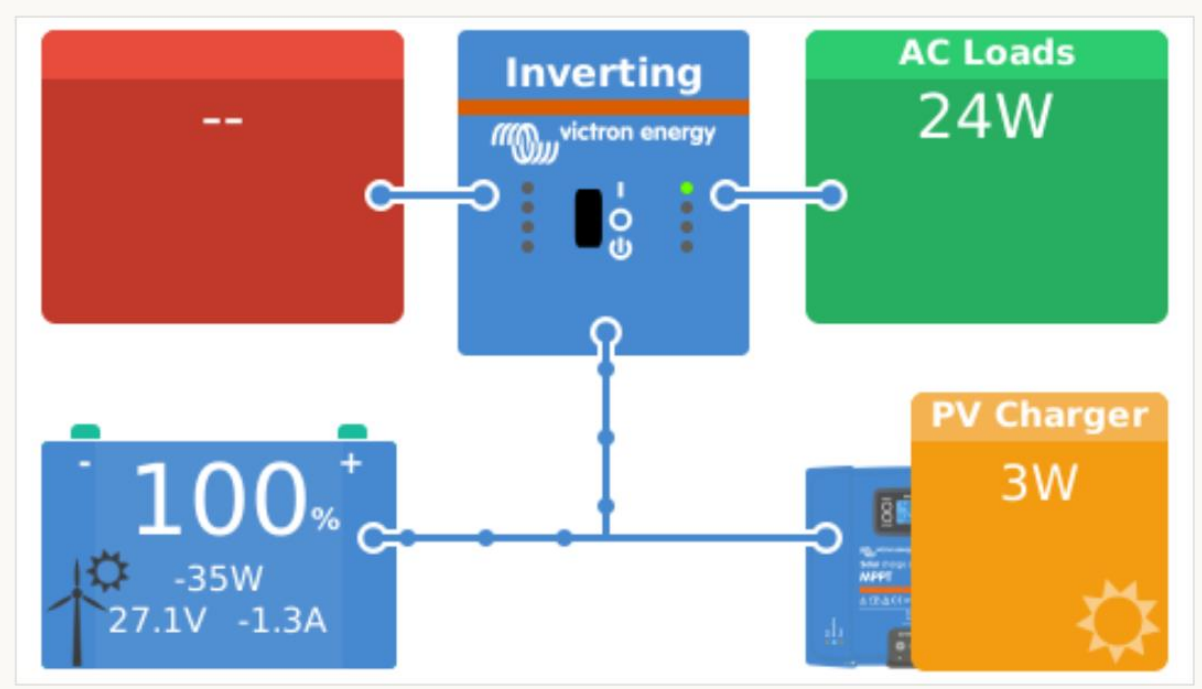
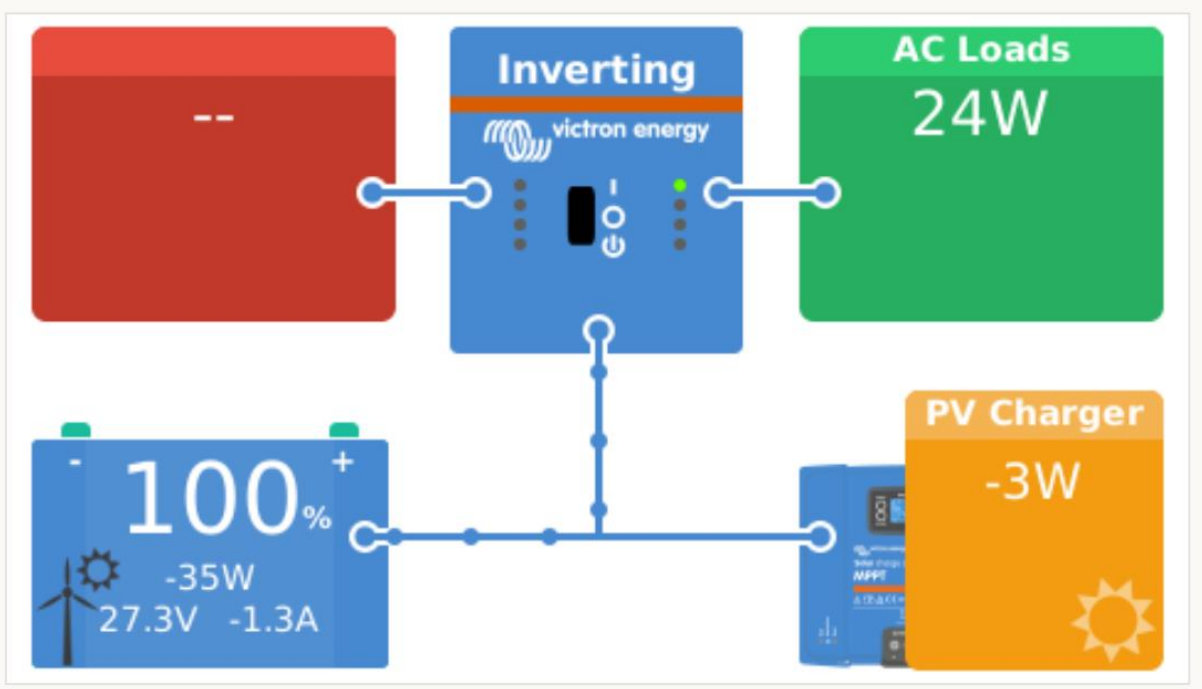
Slowly grid power is reduced...



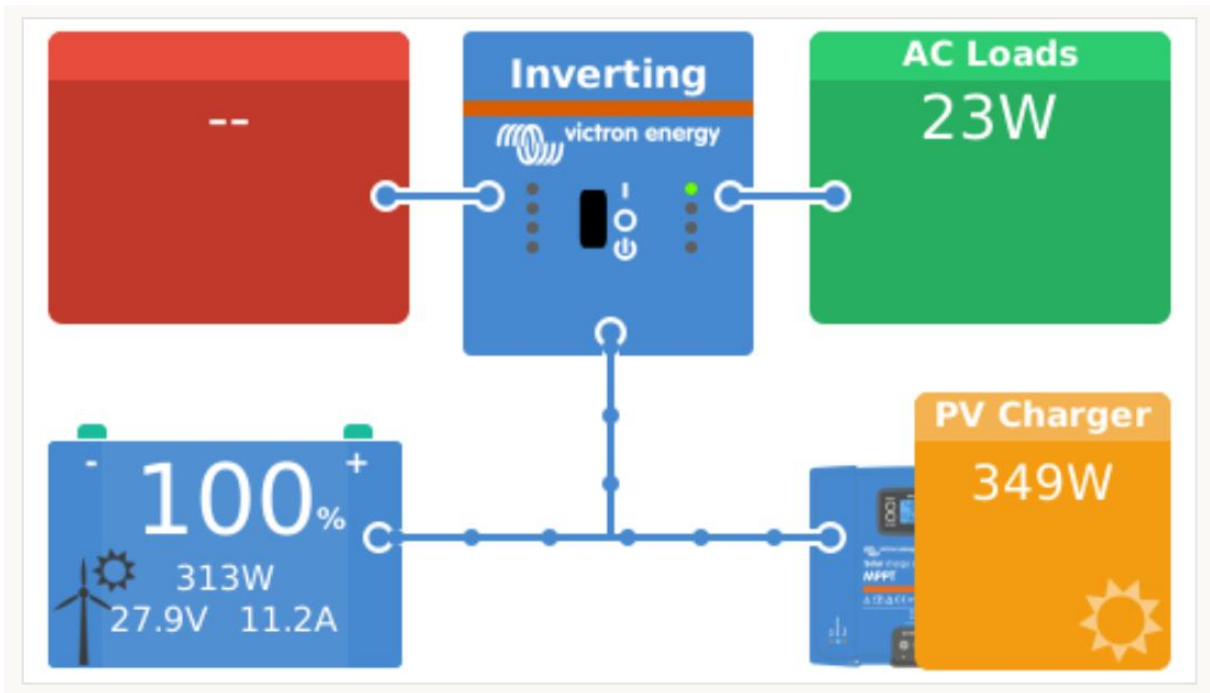
Until we are close to 0W on grid again – power comes solely from battery again:



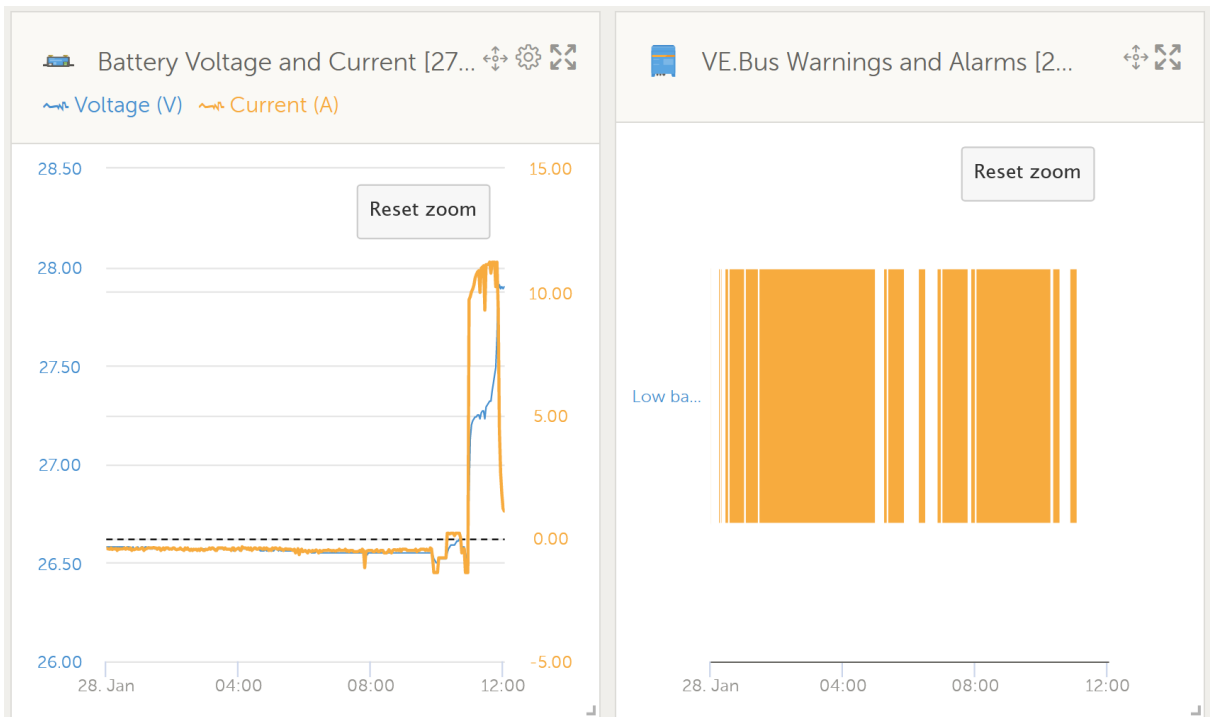
Disconnect ACin again:

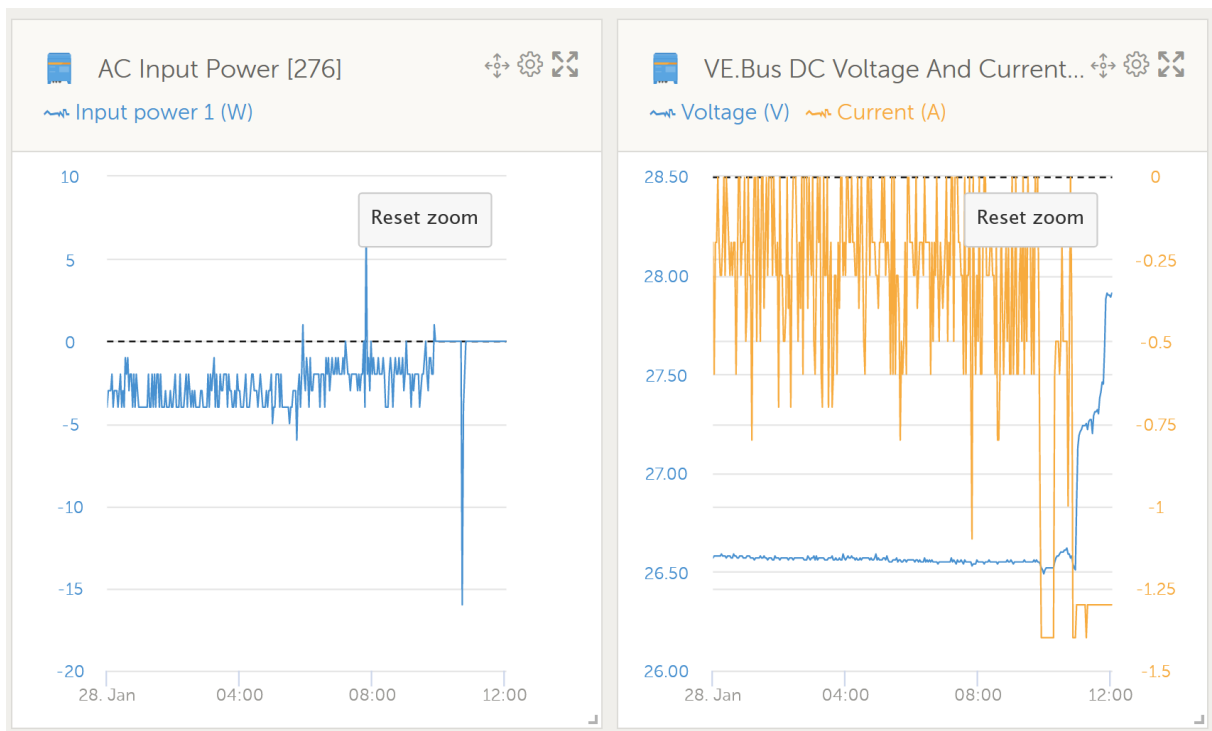


After some time, PV started to work again (large PV attached):



Alarm and related battery status:





Settings:

#### ESS (Energy Storage System) (size:978)

- \* ) System uses LiFePo4 with other type BMS  
(This can be either a BMS connected via CAN bus or a BMS system in which the batteries are protected from high/low cell voltages by external equipment.)
- \* ) The battery capacity of the system is 100 Ah.
- \* ) Sustain voltage 25.00 V.
- \* ) Cut off voltage for a discharge current of:
  - 0.005 C= 26.00 V
  - 0.25 C= 25.00 V
  - 0.7 C= 24.60 V
  - 2 C= 24.00 V
- \* ) Inverting is allowed again when voltage rises 0.60 V above cut-off(0).
- \* ) Relevant VEConfigure settings:
  - Battery capacity 100 Ah.
  - PowerAssist unchecked
  - Lithium batteries checked
  - Dynamic current limiter unchecked
  - Storage mode unchecked

Total size of all assistants including the required  
(hidden) system assistants is: 1037

General | Grid | Inverter | **Charger** | Virtual switch | Assistants | Advanced

System frequency

50Hz  60Hz

Shore limit

AC input current limit  A  Overruled by remote

Dynamic current limiter

**Enable battery monitor**

State of charge when Bulk finished  %

Battery capacity  Ah

Charge efficiency





General | Grid | Inverter | Charger | Virtual switch | Assistants | Advanced

Inverter output voltage  V

Ground relay

PowerAssist

Assist current boost factor

DC input low shut-down  V

DC input low restart  V

DC input low pre-alarm  V

shut-down on SOC

SOC low shut-down  %

SOC low restart  %

Do not restart after short-circuit (VDE 2510-2 safety)

enable AES

Start AES when load lower than  W

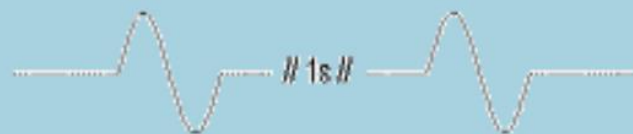
Stop AES when load  W higher than start level.

AES type

modified sine wave



search mode



General | Grid | Inverter | **Charger** | Virtual switch | Assistants | Advanced

Enable charger

- Weak AC input
- Stop after excessive bulk

Lithium batteries

Disable VSense (for diagnostic purposes)

Configured for VE.Bus BMS

Battery type:  
No corresponding default

Charge curve Fixed

Absorption voltage 29.00 V Repeated absorption time 1.00 Hr

Float voltage 27.60 V Repeated absorption interval 7.00 Days

Charge current 16 A Absorption time 1 Hr

Stop charger below -20.5 deg C



General

Grid

Inverter

Charger

Virtual switch

Assistants

Advanced

limit internal charger to prioritize other energy sources

Sustain voltage  V

Refer to [documentation](#) for recommended sustain voltage



ESS



12:31

Mode

Optimized (without BatteryLife)

Grid metering

Inverter/Charger

Multiphase regulation

Total of all phases

Minimum SOC (unless grid fails)

25%

Peak shaving

Above minimum SOC only

Limit inverter power



Pages



Menu

< ESS ⚠️ 📶 12:32

Minimum SOC (unless grid fails) 25%

Peak shaving Above minimum SOC only

Limit inverter power

Grid setpoint 0W

Grid feed-in >

Scheduled charge levels Inactive >

📄 Pages ^ ☰ Menu

< Grid feed-in ⚠️ 📶 12:33

AC-coupled PV - feed in excess

DC-coupled PV - feed in excess

Feed-in limiting active No

📄 Pages ☰ Menu