

Dynamic Load Management

RDX charger supports power consumption (current draw) control to prevent circuit breaker tripping (overloading).

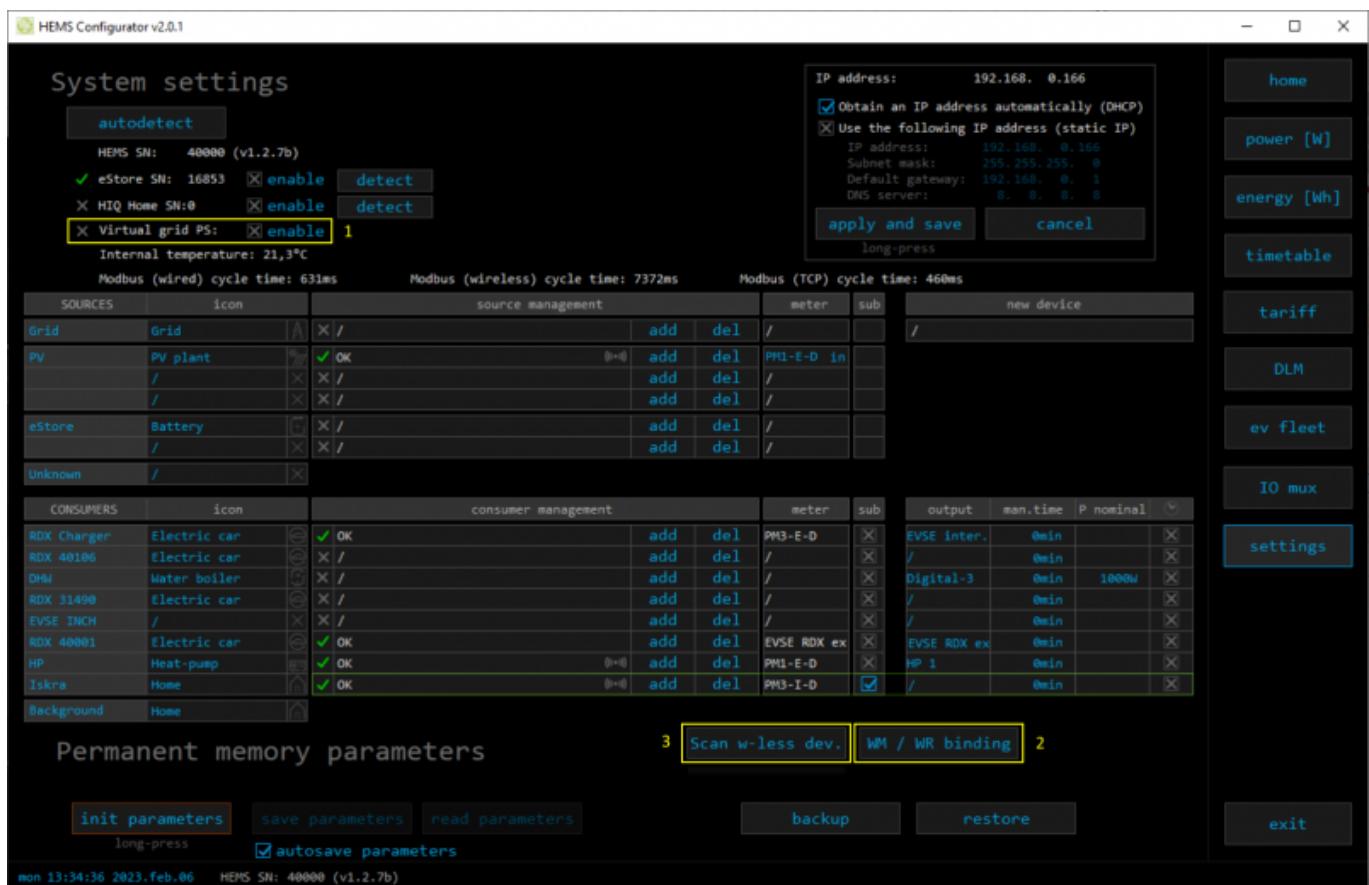
Overloading causes multiple high-energy appliances working at the same time, such as an oven, dishwasher, heat pump and EV charging.

RDX Charger monitors a current draw by appliances and in real time allocates (limits) available capacity allowing them to run without overloading.

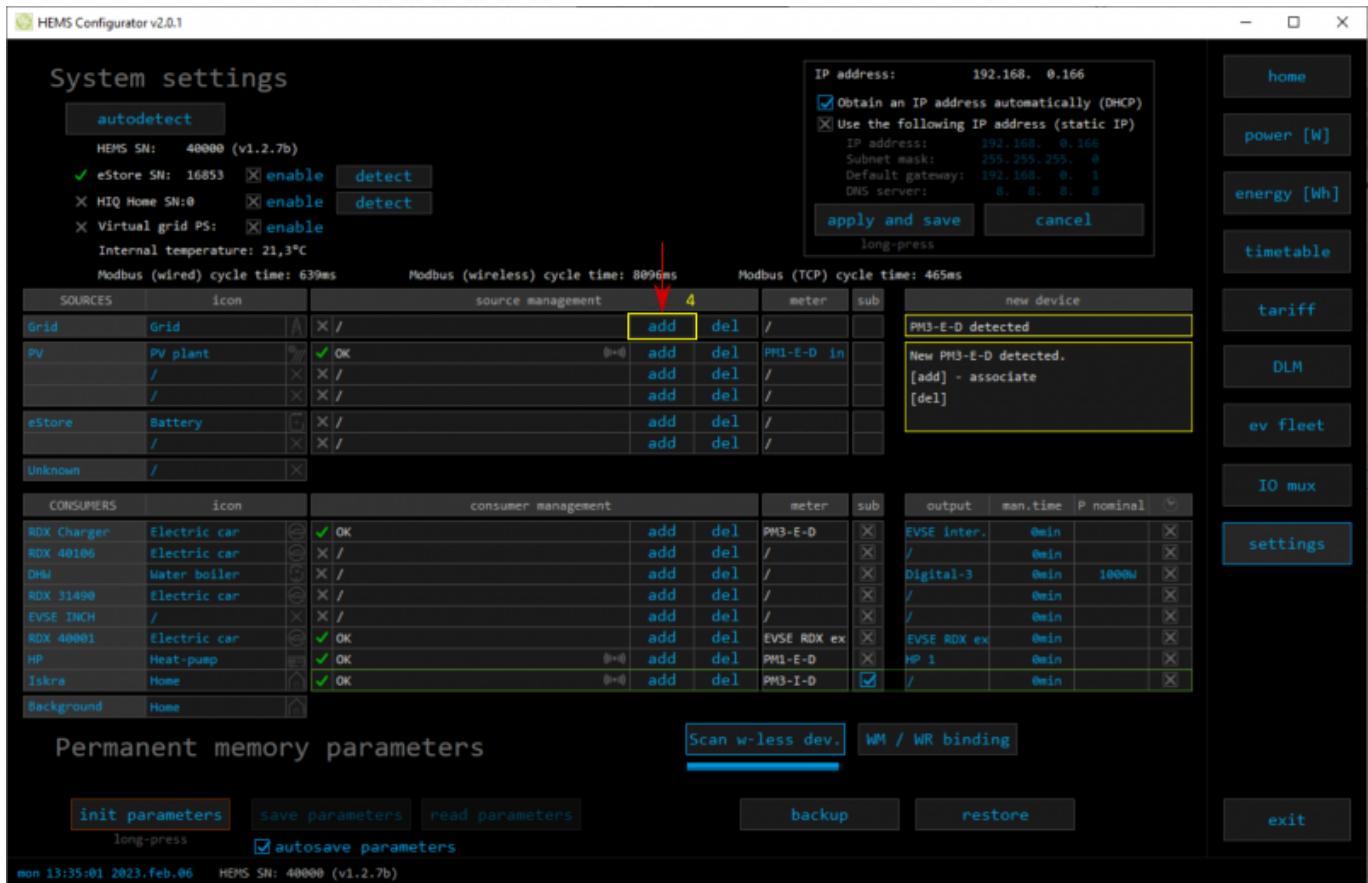
NOTE: Power sensor must be mounted so that it can measure power & current on grid (power supply for object/home).

Procedure to activate Dynamic Load Management is as follows:

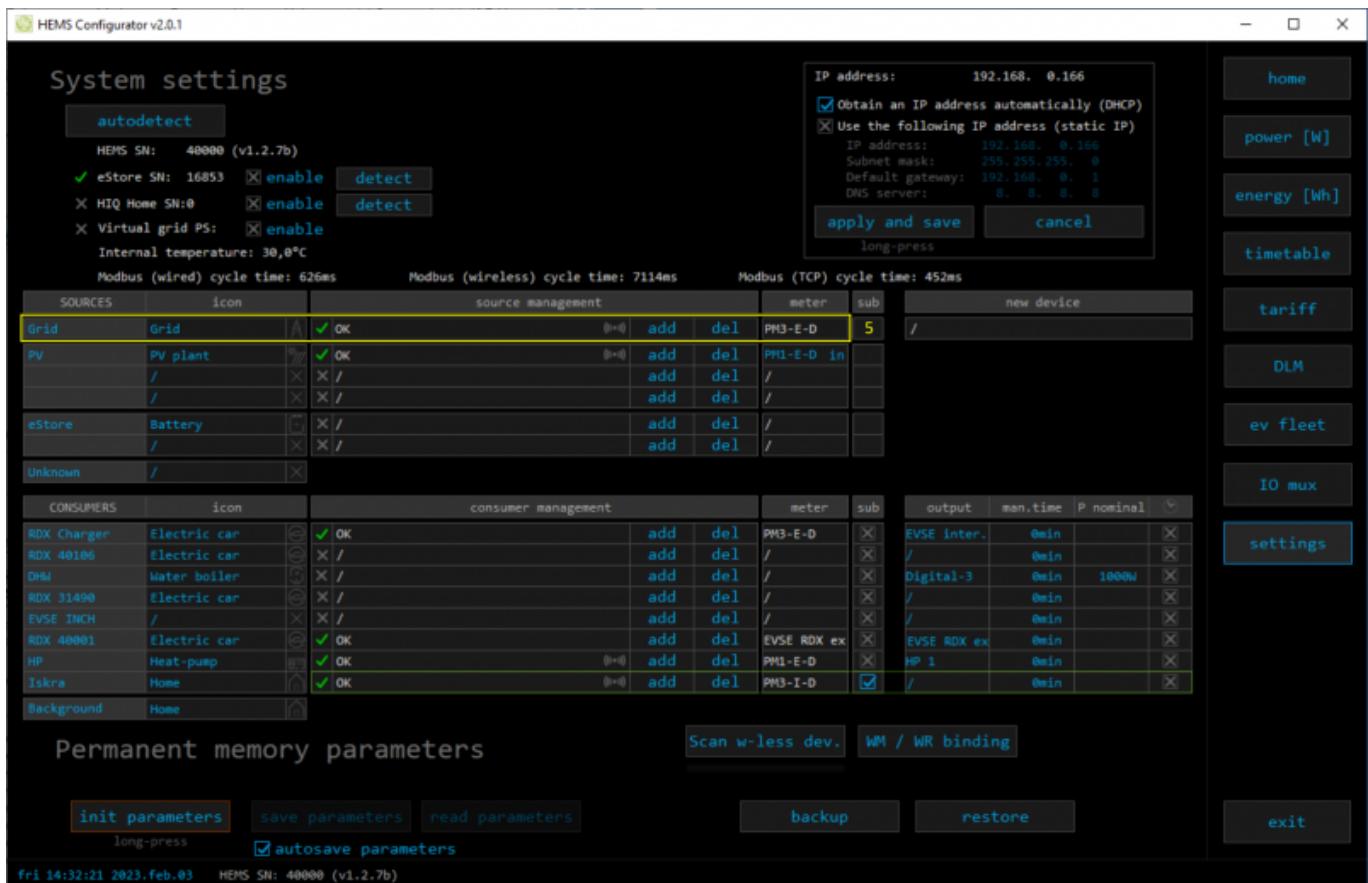
- [HEMS Configurator](#) → settings → Virtual grid PS must be disabled (1)
- Wire [PM1-E-D](#) or [PM3-E-D](#) to [WM-1](#) module (set address to 150 or use default address 149)
- [HEMS Configurator](#) → settings → select WM/WR pairing button and follow [WM/WR pairing instructions](#) (2) (3)



- Power sensor is detected. Add it to grid position (4)



- Power sensor configured successfully (5)



- HEMS Configurator → DLM, enter allowed current value of grid fuses (6)
- make sure to configure correct phase order (7), otherwise dynamic load management may not

work properly

- select limiter priority for RDC Charger (8): no limiter, limit last (last to be limited), limit second, limit first (first to be limited)

The screenshot shows the HEMS Configurator v2.0.1 software interface with the following details:

Dynamic Load Management

Grid current limit [A]		
L1	L2	L3
Used current limit: 25	25	25
MAX current limit: 25	25	25

6

Enable cluster slave connection

Master current limit: 0	0	0	X
Limit if connection with master is lost: 0	0	0	X

Enable limiting from cloud

Cloud current limit: 3200	3200	3200	X
Limit if connection with cloud is lost: 3200	3200	3200	X

Grid

	Power [W]				Current [A]			Voltage [V]			Phase order	I	Priority
	Total	L1	L2	L3	L1	L2	L3	L1	L2	L3			
Grid	13920	4620	4640	4660	20,0	20,0	20,3	230	230	230	L1 L2 L3	7	

Devices

RDX Charger	<input checked="" type="checkbox"/>	13920	4620	4640	4660	20,0	20,0	20,3	231	232	233	L1 L2 L3	▲ Limit first	8
Oil radiator	<input type="checkbox"/>	0	0	0	0	0,0	0,0	0,0	230	230	230	L1 L2 L3	▲ Limit last	
Chiller	<input type="checkbox"/>	0	0	0	0	0,0	0,0	0,0	0	0	0	L1 L2 L3	No limiter	
	<input type="checkbox"/>	0	0	0	0	0,0	0,0	0,0	229	0	0	L1 L2 L3	No limiter	
	<input type="checkbox"/>	0	0	0	0	0,0	0,0	0,0						
	<input type="checkbox"/>	0	0	0	0	0,0	0,0	0,0						
Background	<input type="checkbox"/>	0	0	0	0	0,0	0,0	0,0						
GRID FREQUENCY [Hz]	0,00													

mon 15:30:00 2023.feb.06 HEMS SN: 40105 (v1.2.7b)

exit