

EV fleet

RDC charger supports connection of up to 8 RDC Chargers - EV fleet.

In such configuration only one RDC Charger (master) is in charge of other connected chargers (slave). Master RDC Charger monitors:

- current draw by other slave chargers and in real time allocates (limits) available capacity allowing them to charge without overloading,
- data from slaves such as power, energy & settings and synchronize them with cloud service, therefore no need for extra IOT linker on slave RDC Charger.

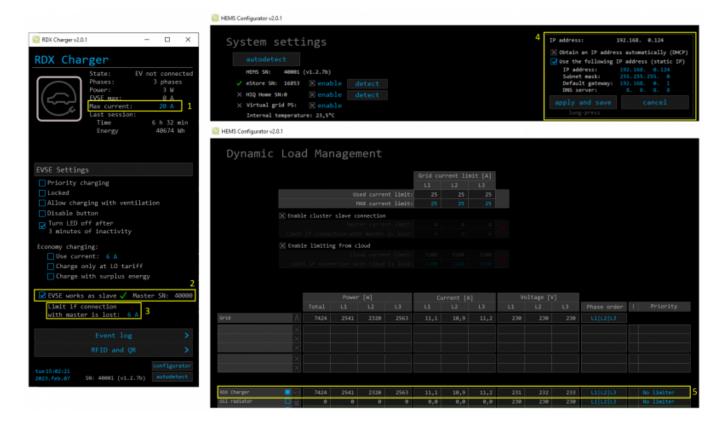
Note: If there is no grid power sensor, master charger enables limiting of complete ev fleet by virtual grid power sensor.



Only one RDC charger is master in ev fleet!

Procedure to set RDX Charger as slave is as follows:

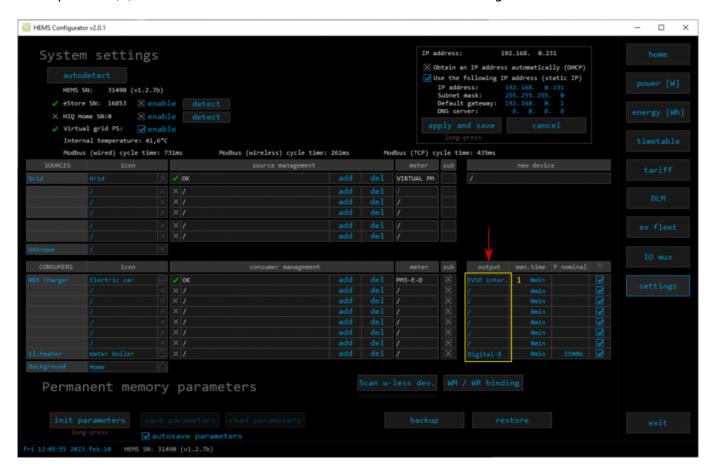
- RDC Charger → set Max current (1)
- RDC Charger → enable "EVSE works as slave" (2) Master SN presents serial number of master charger, it will appear once connection is established.
- RDC Charger → set current if connection with master is lost (3)
- HEMS Configurator → settings → set static IP (it's recommended) (4)
- HEMS Configurator → limiter → set "No limiter" for RDC Charger (5)



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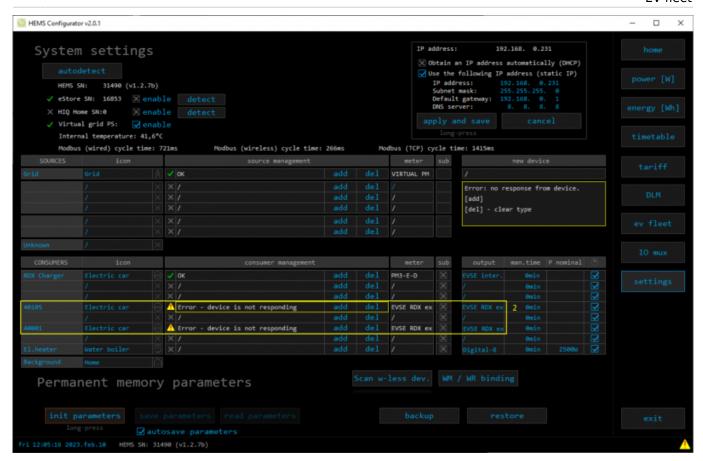
Procedure to set RDC Charger as master is as follows:

 HEMS Configurator → settings → output column → select "EVSE RDC external" at desired position (1). Note that "EVSE inter." is reserved and can't be changed!



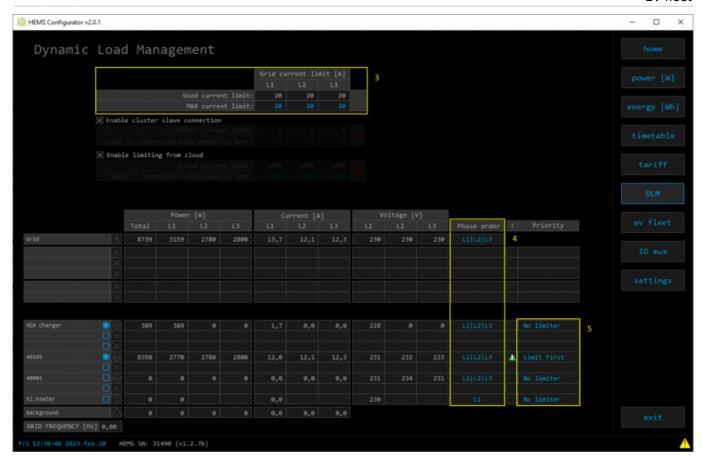
 HEMS Configurator → settings → enter name and select icon (2). Message "Error - device is not responding" may appear as IP address is not defined yet.

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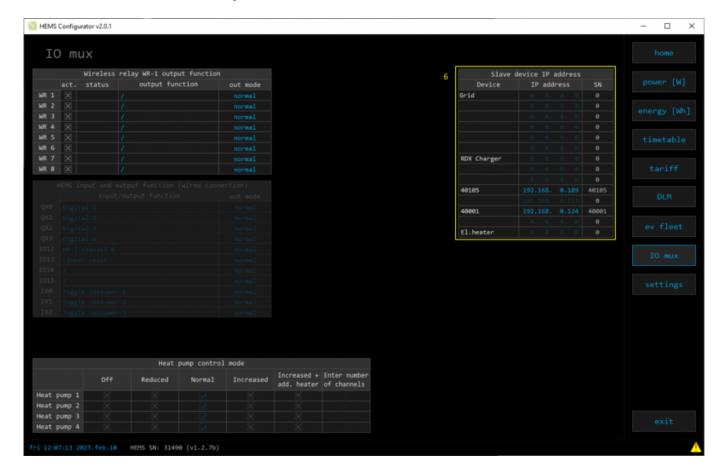


- HEMS Configurator → limiter:
- (3) enter allowed current value of grid fuses in case of connected grid power sensor, or max current limit of complete ev fleet if there is virtual grid active
- (4) make sure to configure phase order for grid and RDC Chargers correct as dynamic load management may not work properly. **Double check!**
- (5) select limiter priority for chargers: no limiter, limit last (last to be limited), limit second, limit first (first to be limited)

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HEMS Configurator → IO mux → enter IP address of slave RDX Charger (6). Serial number (SN) will be listed automatically once connection is established.



• HEMS Configurator → ev fleet:

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- (7) master RDC Charger,
- (8) connected slave RDC Charger with enabled control by master (green tick) and
- (9) connected slave RDC Charger with disabled control (red X) \rightarrow master can not control it! To enable control, run RDC Charger app on slave charger and enable "EVSE works as slave".



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