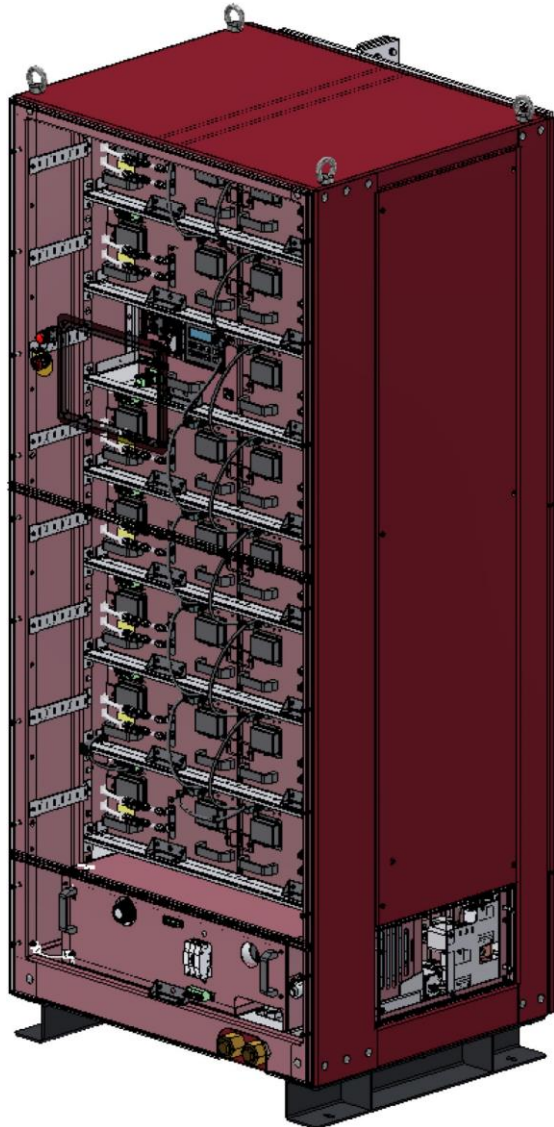


# VEGA CABINET rectifier

**CRS**  
INDUSTRIAL POWER EQUIPMENT



# Output power

- ♦ 360KW for water cooled
- ♦ 300KW for air cooled

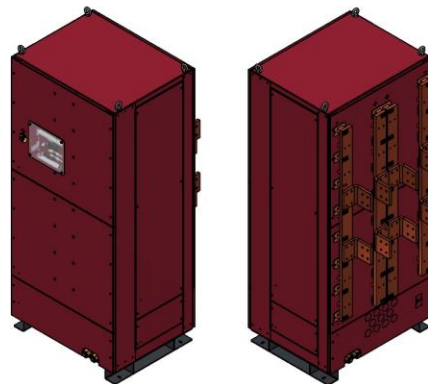
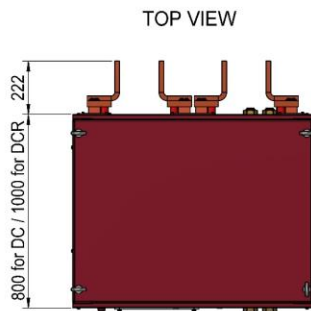
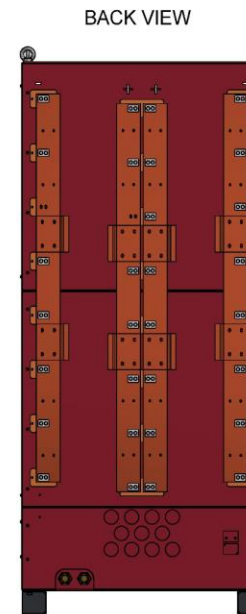
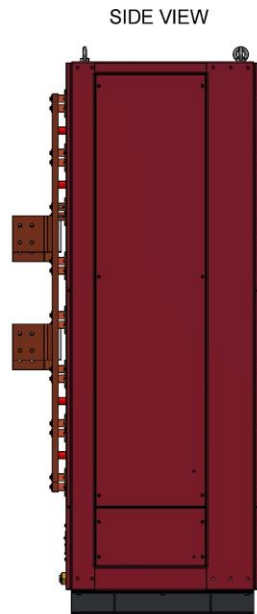
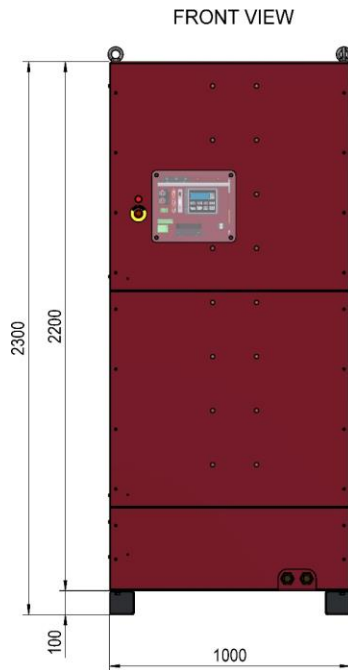
Output Voltage	Output Current	
	Water cooled	Air cooled
16 V	22'500 A	18'000 A
18 V	19'500 A	16'500 A
25 V	14'400 A	12'000 A
35 V	10'200 A	8'550 A
40 V	9'000 A	7'500 A

- 15 power modules -



# General specification

- ♦ Overall dimension for air and water cooled:



	Width [mm]	Depth [mm]	Height [mm]
DC	1000	800	2200
DCR	1000	1000	2200

# General specification

- ◆ Up to 15 modules
- ◆ IP level:
  - IP54 for water cooled
  - IP32 for air cooled
- ◆ Lift:
  - From top, with four M16 eyeboltS
  - Optional from bottom, with 2 rails (100mm height)
- ◆ Weight:
  - Max. 910 kg for water cooled
  - Max. 840 kg for air cooled

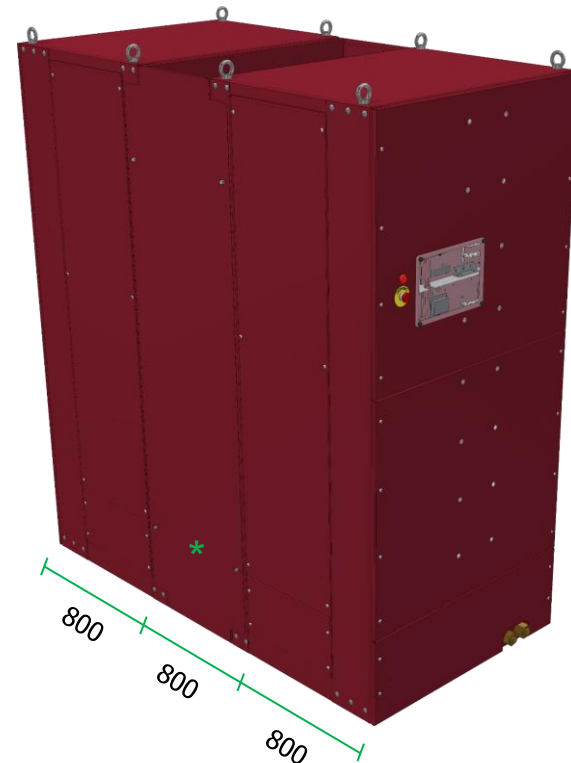


# General specification

- ♦ Installation side by side:
  - No space required between rectifiers



- ♦ Installation back to back:
  - Output bars separated 35mm recommended



\* Lateral bars covers are optional

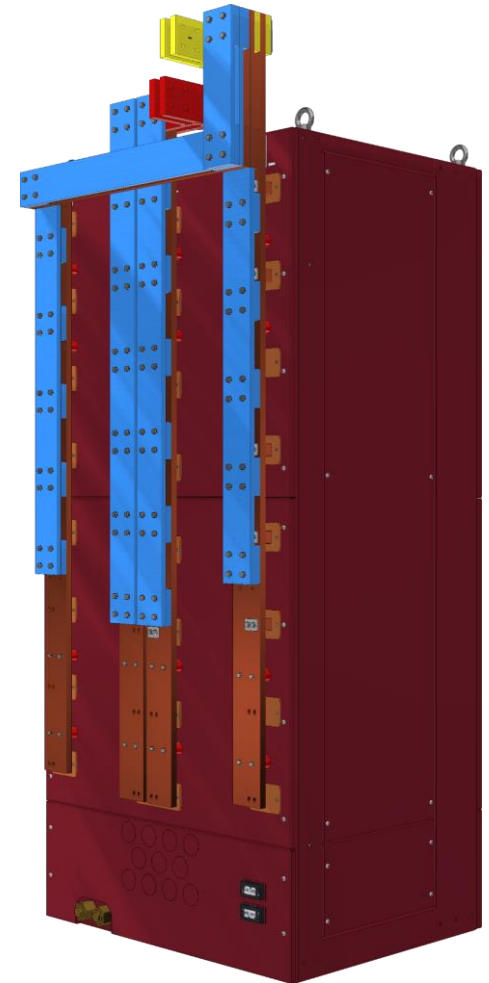


# Output copper bars

- ◆ Standard solution
  - 1.5 A/mm<sup>2</sup> each connection

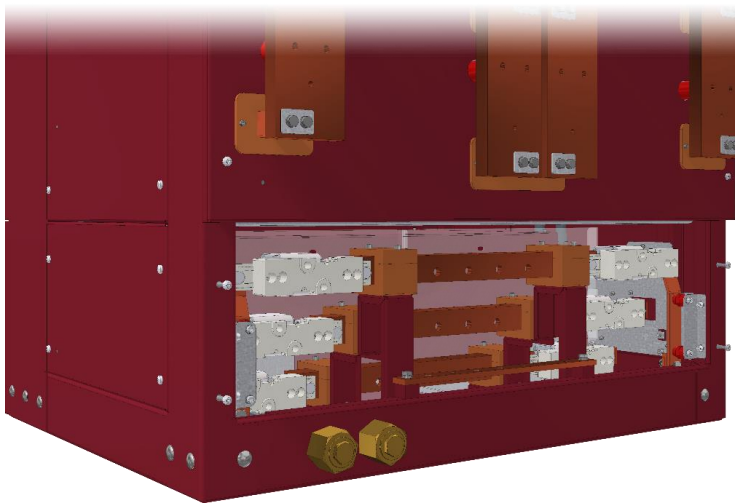


- ◆ Customized design



# Input power

- ◆ Protection fuses on each branch
- ◆ From lowest rear panel:
  - 11 removable punched holes for the passage of the cables
- ◆ From bottom :
  - opening of 285 x 225mm for the passage of cables / up to 4 \* M12 for each phase



# Water cooling circuit

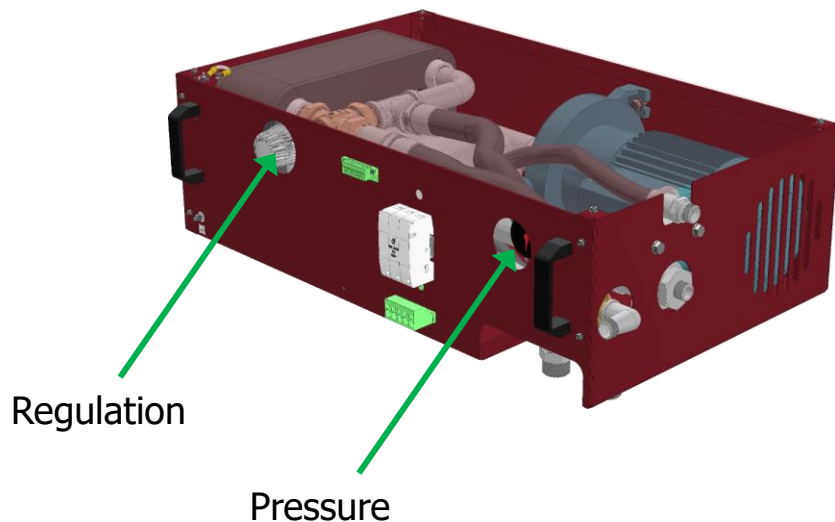
- ◆ Input and output water connections are available on both the front and the back of the rectifier
  - Brass G 1" female fittings both input/output
- ◆ Flow and temperature meter included





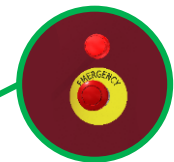
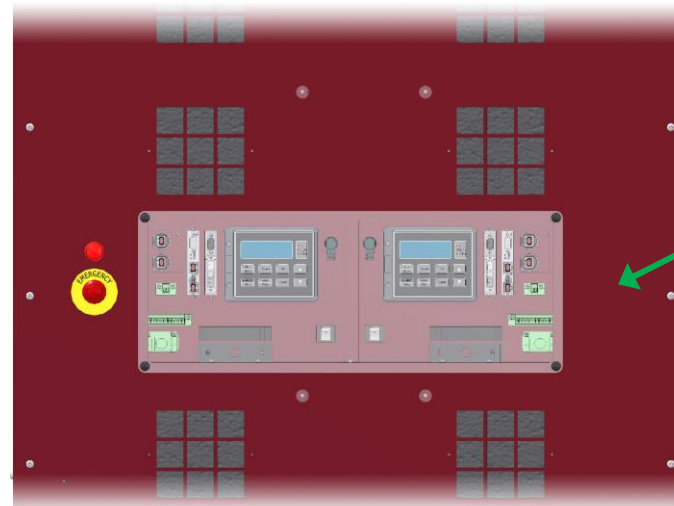
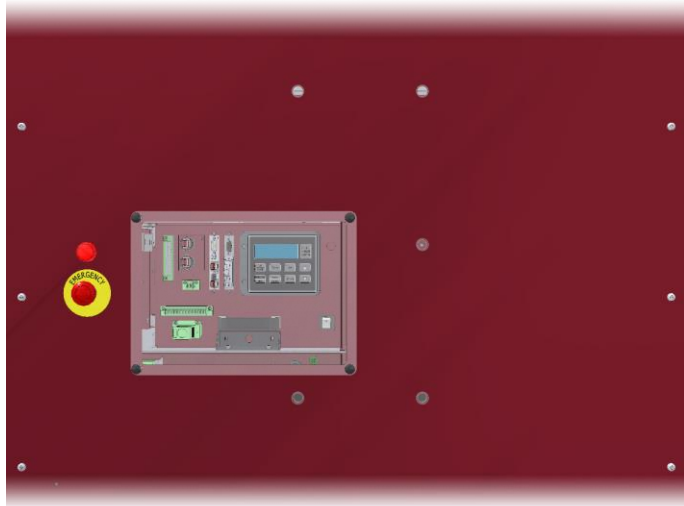
# Heat exchanger

- ◆ Optional internal water-water heat exchanger
  - Max. 65 kW of cooling capacity
  - Max. water flow 120 l/min
- ◆ Easy to disconnect and remove from the front



# CPU/Comm module

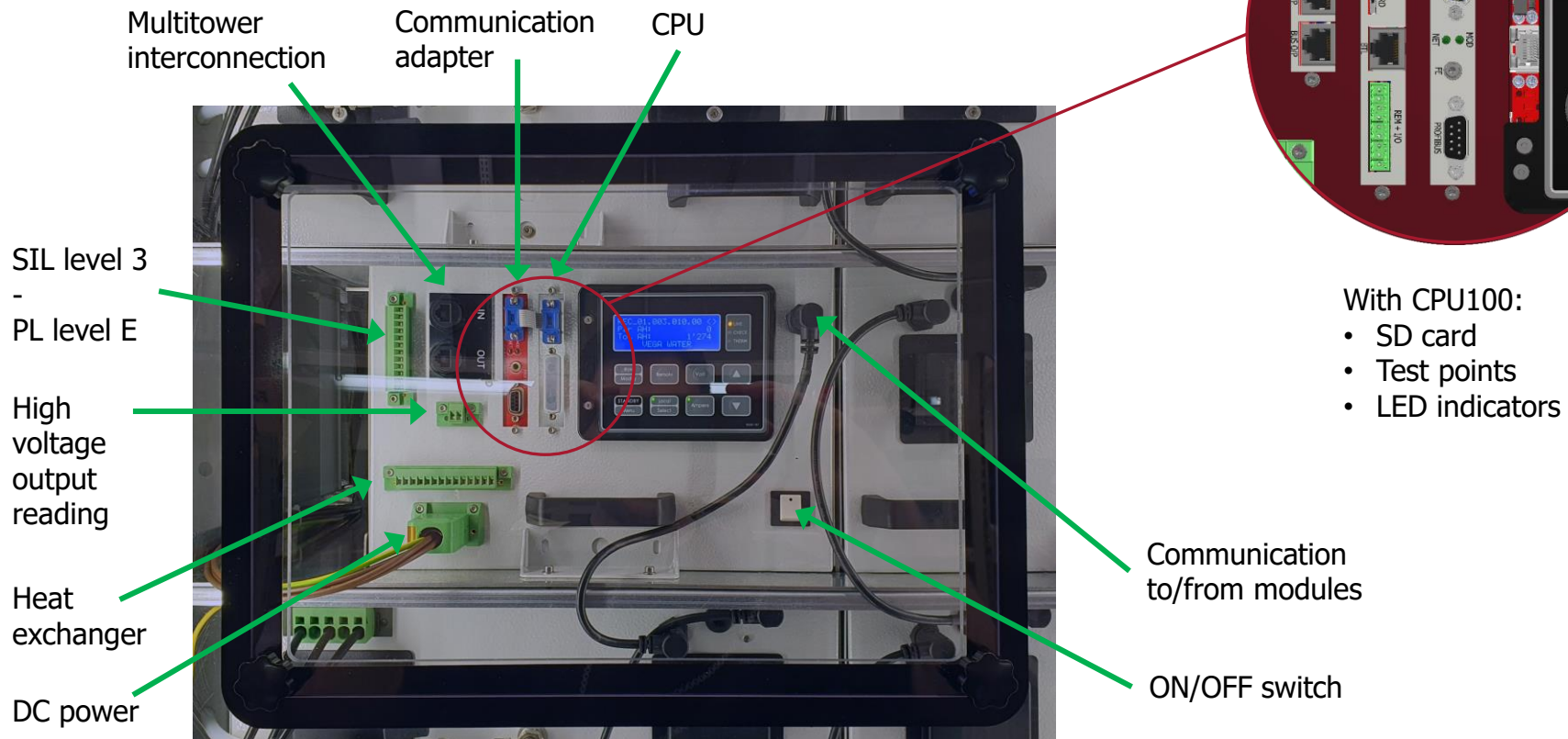
- ♦ One CPU for 15 modules connected in parallel
- ♦ Two CPUs for multitower configuration or two rectifiers (7+7 power modules) inside one cabinet
  - Optional parallel or series connection of power modules



In case of two CPUs, but not for multitower configuration, double SIL is required

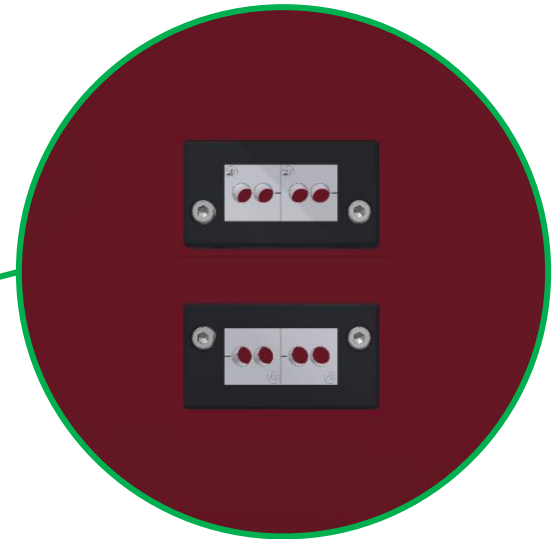
# CPU/Comm module

- ♦ All the connections face the front of the rectifier
  - Easy to access through the plexiglass panel



# Communication output

- ♦ IP54 sealed cable glands for communication cables outlet
  - 2 for comm bus
  - 1 for SIL or PL
  - 2 for multitower interconnection
  - 1 for remote control



- ♦ SIL level 3 - PL level E
- ♦ Emergency button and light on front panel
- ♦ Signal can be put in series with the system emergency line
  - 2 contacts input and 2 contacts output
- ♦ SIL circuitry powered by internal power supply or optional external power supply (24 VDC)





- ◆ Access for service is required only from the front of the rectifier
- ◆ Modules can be easily removed and re-installed with access from the front only
- ◆ CPU/COMM module can be easily disconnected and pulled out
- ◆ Heat exchanger can be easily removed from front

