

► TECHNICAL DATA

## VENCON PV 16,7 Hz

The All-rounder among  
the Converters



### Photovoltaic inverter

Specially engineered as a modular single-phase inverter with central-decentral inverter concept for railway application, it features high design flexibility for the complete PV system thanks to three independent MPP trackers.

▼ **Modular:** Expandability in steps of 125 kW means total power can be reached for all sizes.

▼ **Versatile:** Three different strings with an output of 120 kW each can be operated in a broad voltage range, making the most diverse module configurations possible.

▼ **Easy to maintain:** The modular design, air cooling and the ability to control the system remotely (Web Interface) make sure VENCON requires only a minimum amount of maintenance.

▼ **Flexible:** Thanks to its compact design, VENCON is suitable for use in any location.



## SYSTEM COMPONENT

### CONTROL CABINET WITH 3 POWER MODULES

Dimensions	1213 x 656 x 2351 (height) mm
Weight	< 980 kg
Indoor housing	IP20
Temperature range, operation	-20 to +40 °C at the bottom
Cable entry	Air Cooling
Cooling	< 2000 m
Place of installation	
Humidity	< 95% non-condensing

## POWER MODULES

Three power modules can be housed in each VENCON. Individual DC or AC configuration for each module. For optimal operation, VENCON is equipped with one DC\* and two AC\*\* power modules.

\* DC power module 3 x 120 kW | \*\* AC power module 1 x 125 kW

### AC POWER MODULE

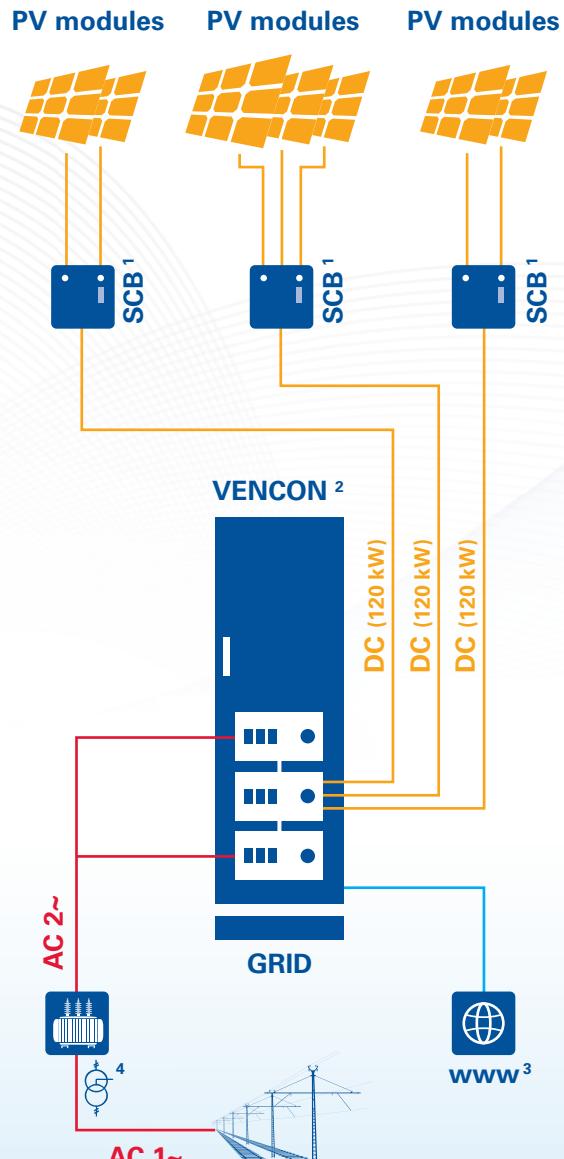
Rated voltage at 16,5 kV	230 V*
Rated voltage at 15,4 kV	214 V*
Mains frequency	16,7 Hz
Switching frequency	4 kHz
Nominal power	250 kW (2x125kW)
Power factor	cos phi 1
Mains protection	U<<, U<, U>, U>>, f<, f>

(\* 2x230V/214V 180° offset → Transformer with center tap necessary)

### DC POWER MODULE

Voltage/operating range	100 V - 720 V DC
Rated voltage	600 V DC
Maximum input voltage	720 V DC (operation)
Number of MPP inputs	3
Max. input current per MPP	200 A
Switching frequency	4 kHz

## CIRCUIT DIAGRAM



1) String Combiner Box

2) DC parallel connection possible with any number of devices

3) Web Interface

4) Transformer with center tap necessary