



Illustrative photo

General Features

- High efficiency
- Full Digital Signal Processing control
- Input/Output Radio Frequency Interference compliant to FCC
- Complete Supervision possibility
- Parallel operation in True Redundant System
- Large DC input voltage range
- Patented technology

Application

- Telecom, industrial, control and security technologies

Description

The Telecom Series of design-improved modular inverters can be supplied from any DC source in voltage range from 40 up to 80 VDC, providing pure sine wave output.

Several inverters can be connected in parallel to achieve the requested total power, including redundancy for best availability. Thanks to the full DSP control, true redundancy is achieved, while all information is available both locally and remotely with SYS3000 controller and PSM2000 software or with system DVV RB-01.

The high frequency conversion and the topology used allow very high efficiency to be reached in a compact and user-friendly design. The environmentally friendly range complies with International, European and general Telecoms standards

Technical data

Model	RDI 1000VA – 48VDC – 120 VAC	RDI 1000VA – 48VDC – 230 VAC
Input	120 VAC	230 VAC
Operating voltage range	40 ÷ 80 VDC	
Maximum input current	< 28,5 A	< 27,7 A
Output	120 VAC	230 VAC
Nominal output voltage	120 V, (108 ÷ 125 VAC)	230 V, (200 ÷ 240 VAC)
Output voltage tolerance	±3% of adjustable nominal voltage	
Output voltage frequency	50 or 60 Hz (selectable)	
Total harmonic distortion (THDi)	≤3% (on linear load at nominal power)	
Nominal value of output current	8,33 A	4,35 A
Crest factor at nominal power	3:1	
Output power	120 VAC	230 VAC
Nominal value	1000 VA	1000 VA
Overload (±15%, max. 5s, self-protected)	2000 VA	2000 VA
Permanent overload	120%	120%
Power factor for 100% power	0 Inductive to 0 capacitive Full 2 quadrants operation	
EMC	120 VAC	230 VAC
Standards applied for immunity	EN 61000- 4-2 / 4-3 / 4-4 / 4-5 / 4-6	
Standards applied for emission	ETS300-132-2, CISPR 22 class B	
Efficiency	120 VAC	230 VAC
Efficiency	88%	90%
Temperature	120 VAC	230 VAC
Storage temperature	- 40°C ÷ + 80°C	
Permissible ambient temperature	- 20°C ÷ + 50°C	
Safety	120 VAC	230 VAC
Safety	EN 60950 / UL 1950	
Protection	Internal electronic + relays + fuses	
Dielectric strength	4000 VDC input / output, 4000 VDC output / earth 2000 VDC input / earth	
Mechanics	120 VAC	230 VAC
Cooling	Natural	
Dimensions (wdh)	438 x 330 x 2U mm	
Weight (app.)	8,5 kg	