



## Parallel Switchmode Inverter

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**RDI 1000VA-48VDC-230VAC**

This new family 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 informations are available both locally and remotely with SYS3000 controller and PSM2000 software.

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.



### General features

- 2U up to 16 units in parallel
- High efficiency
- Full Digital Signal Processing control
- Outstanding response time
- Input/Output Radio Frequency Interference compliant to FCC
- Complete Supervision possibility
- Parallel operation in True Redundant System
- Large DC input voltage range
- Patented technology

## TECHNICAL SPECIFICATIONS

MODEL		120VAC	230VAC
Input	Operating voltage range	40 up to 80 Vdc	
	Maximum Input current	< 28.5 A	< 27.7 A
Output Specifications	Nominal output voltage	120V,adjustable 108...125Vac	230V,adjustable 200...240Vac
	Output voltage tolerance	+ 3% of adjustable nominal voltage	
	Output voltage frequency	50Hz or 60Hz, selectable	
	Total harmonic distortion	≤ 3% (on linear load at nominal power)	
	Total transient recovery time	≤ 0,3 msec (typical)	
	Turn-on-delay	< 3 sec.	
	Nominal value of output current	8.33 A	4.35 A
	Crest factor at nominal power	3	
Output Power	Nominal value	1000 VA	1000 VA
	Overload ( +/- 15%, 5 sec. Max, Self protected)	2000 VA	2000 VA
	Permanent overload	120%	120%
	Power factor, for 100% power	0 Inductive to 0 capacitive Full 4 quadrants operation	
Electro-magnetic compatibility	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		88 %	90 %
Temperature	Storage temperature	- 40°C to 80°C	
	Permissible ambient temperature	- 20°C to 50°C	
Safety		EN60950 / UL1950	
Protections		Internal electronic + Relays + Fuses	
Dielectric Strength		4000VDC Input / Output	4000VDC Output / Earth 2000VDC Input / Earth
Cooling		Natural	
Dimensions (W x D x H, mm)		438 x 330 x 2U	
Weight (Kgs, approximately)		8,5	

Sinetech reserves the right to change specifications without prior notice

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