

RDI 3000VA - 220VDC - 230VAC



General features

- 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

This new family of design-improved modular inverters can be supplied from any DC source in voltage range from 180 up to 275 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 to reach very high efficiency in a compact and user-friendly design. The environmentally friendly range complies with International, European and general Industry standards.

The smart AC solution

CE+T S.A.

Rue du Charbonnage 18
Belgium - 4020 WANDRE

Tél : +32 (0)4 345 67 00
Fax : +32 (0)4 345 67 01



1. Input specifications

Operating voltage range	180 up to 275 Vdc
Maximum Input current	< 18 A

2. Output specifications

Nominal output voltage	230V, adjustable 200...240Vac
Output voltage tolerance	± 3 % of adjusted nominal voltage
Output voltage frequency	50Hz or 60 Hz, selectable
Total harmonic distortion	≤ 3 % (on linear load at nominal power)
Total transient recovery time	$\leq 0,3$ msec (typical)
Turn-on delay	< 3 sec.
Nominal value of output current	13 A
Crest factor at nominal power	3

3. Output power

Nominal value	3000 VA
Overload (+/- 15%, 5 sec. Max, Self-protected)	6000 VA
Permanent overload	120 %
Power factor, for 100% power	0 inductive to 0 capacitive Full 4 quadrants operation

4. 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 ClassB

5. Efficiency

89 %

6. Temperature

Storage temperature	- 40°C to 80°C
Permissible ambient temperature	-20°C to 50°C

7. Safety

EN60950 / UL1950

8. Protections

Internal electronic + Relays + Fuses

9. Dielectric strength

4000VDC Input / Output	4000VDC Output / Earth
	2000VDC Input/Earth

10. Cooling

Forced

11. Dimensions (W x D x H, mm)

438 x 348 x 2U

12. Weight (Kgs, approximately)

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Specifications can change without notice,
new datas will be updated on Web site : www.cet.be

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