

# ARCON ST 3000VA - 48VDC



## General features

- High efficiency
- Full Digital Signal Processing control
- Outstanding response time
- Input / Output Radio Frequency Interference compliant to FCC
- Hot swappable unit
- By-pass integrated in the cradle
- 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 40 up to 80 Vdc, providing pure sine wave output.

The cradle includes all AC & DC distribution terminal and automatic by-pass relay which allows to hot swap the inverter without disturbing the AC output. On-line and Off-line mode are both available and can be configured live.

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 Telecoms standards.



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*The smart AC solution*

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120 Vac

230 Vac

## 1. Input specifications

Operating voltage range 40 up to 80 Vdc

Maximum Input current < 93 A < 83 A

## 2. Output specifications

Nominal output voltage 120V, adjustable 108...125Vac 230V, adjustable 200...240Vac

Output voltage tolerance  $\pm 3\%$  of adjusted nominal voltage

Output voltage frequency 50Hz or 60 Hz, selectable

Total harmonic distortion  $\leq 3\%$  (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 25 A 13 A

Crest factor at nominal power 3

## 3. Output power

Nominal value 3000 VA 3000 VA

Overload (+/- 15%, 5 sec. Max, Self-protected) 6000 VA 6000 VA

Permanent overload 120 % 120 %

Power factor, for 100% power 0 inductive to 0 capacitive  
Full 4 quadrants operation

4. Relay commuting time Typical 5ms (Max. 10ms)

## 5. 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

6. Efficiency 89 % 91 %

## 7. Temperature

Storage temperature - 40°C to 80°C

Permissible ambient temperature -20°C to 50°C

8. Safety EN60950 / UL1950

9. Protections Internal electronic + Relays + Fuses

10. Dielectric strength 4000VDC Input / Output 4000VDC Output / Earth  
2000VDC Input/Earth

11. Cooling Forced

12. Cradle dimensions (W x D x H, mm) 450 x 510 x 2U

Specifications can change without notice,  
new datas will be updated on Web site : [www.cet.be](http://www.cet.be)

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