



Illustrative photo

General Features

- High Efficiency
- Full Digital Signal Processing control
- Input / Output Radio Frequency Interference compliant to FCC
- Hot-swappable unit
- By-pass integrated in the cradle
- Large DC input voltage range
- Patented technology

Application

- Telecom, industrial, control and security technologies

Description

This new family of design-improved modular inverters can be supplied from any DC source in voltage range from 88 to 160 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 modes 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 Industry standards.

Technical data

Model	ARCON ST 3000VA – 110VDC – 230 VAC
Input	ARCON ST 3000VA – 110VDC – 230 VAC
Operating voltage range	88 ÷ 160 VDC
Maximum input current	< 37 A
Output	ARCON ST 3000VA – 110VDC – 230 VAC
Nominal output voltage	230 V AC, (208 ÷ 240 VAC)
Output voltage tolerance	±3% of adjusted nominal voltage
Output voltage frequency	50 or 60 Hz (selectable)
Total harmonic distortion (THD)	≤3% (on linear load at nominal power)
Total transient recovery time	≤0,3 ms (typical)
Nominal value of output current	13 A
Crest factor at nominal power	3:1
Output power	ARCON ST 3000VA – 110VDC – 230 VAC
Nominal value	3000 VA
Overload (±15%, max. 5s, self-protected)	6000 VA
Permanent overload	120%
Power factor, for 100% power	0 inductive to 0 capacitive Full 2 quadrants operation
Relay	ARCON ST 3000VA – 110VDC – 230 VAC
Relay commuting time	Typical 5ms (max. 10ms)
EMC	ARCON ST 3000VA – 110VDC – 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	ARCON ST 3000VA – 110VDC – 230 VAC
Efficiency	88%
Temperature	ARCON ST 3000VA – 110VDC – 230 VAC
Storage temperature	- 40°C ÷ + 80°C
Permissible ambient temperature	- 20°C ÷ + 50°C
Safety	ARCON ST 3000VA – 110VDC – 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
Additional information	ARCON ST 3000VA – 110VDC – 230 VAC
Cooling	Forced
Cradle dimensions	450 x 510 x 2U mm

A2B, s.r.o. reserves the right to change any specifications without prior notice.