



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 40 to 72 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.



Modular inverter

ARCON ST 300VA – 48VDC



Technical data

Model	ARCON ST 300VA – 48VDC – 120 VAC	ARCON ST 300VA – 48VDC – 230 VAC
Input	120 VAC	230 VAC
Operating voltage range	40 až 72 VDC	
Maximum input current	< 9 A	< 9 A
Output	120 VAC	230 VAC
Nominal output voltage	120 V AC, (108 ... 125 VAC)	230 V AC, (200 ... 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	2,5 A	1,3 A
Crest factor at nominal power	3:1	
Output power	120 VAC	230 VAC
Nominal value	300 VA	300 VA
Overload (±15%, max. 5s, self-protected)	600 VA	600 VA
Permanent overload	120%	120%
Power factor, for 100% power	0 inductive to 0 capacitive Full 2 quadrants operation	
Relay	120 VAC	230 VAC
Relay commuting time	Typical 5 ms (max. 10 ms)	
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	85%	87%
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	
Additional information	120 VAC	230 VAC
Cooling	Forced	
Cradle dimensions	450 x 510 x 2U mm	

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