

**Telecom SERIES
Modular 19" Rack Mount Telecom Sinewave
Inverter System**

1250VA to 72KVA

The Telecom Series are 100% digital inverters which provide AC current to utilities by taking power from DC sources eg. batteries, fuel cells, solar panel arrays etc. With a full range of options from small stand alone applications to large data centre systems we can provide almost any inverter solution required for today's demanding markets.

1. The ARCON RDI 4000VA module is a single-phase 4000VA output inverter module, with a 48VDC nominal input voltage (40 to 80VDC). It has been developed for cost effective, highly smart modular telecommunication power systems. Modules can be easily paralleled without any additional accessories or extra options. The main application of the inverter ARCON RDI 4000VA is to supply telecom equipment, computers, or any kind of AC load for which they provide, with or without power system controllers, a number of essential system functions such as : inverter current sharing, high level of electronic protection including auto-disconnection mechanism and identification of faulty units. The inverters works with an ambient air temperature up to 50°C.

The input and output of the inverter meets the generic requirements of telecommunication power supplies standards in terms of noise, voltage programmability, as well as over voltage, overload and short-circuit protection.

Some of the product features include :

- Very high efficiencies (typical 90%)
- 100% digital control
- Convection and fan cooled options
- Very low DC noise (all models < 2mV psophometric)
- 16/18 modules can be paralleled for large power demands
- Every inverter module has dedicated processor and comms bus
- True democratic parallel operation
- Dual communication bus for ultimate reliability
- No "master slave" operation like older legacy inverters
- On-line or off-line selectable
- Optional full range of static switches available. (32amps – 180amps)
- Full remote communication and control facilities



Arcon RDI 1250 to 4000 Inverter Series



Typical 16KW assembly with SYS 3000 Controller, STM65 Static Switch and AC Distribution Panel



Model STM65 / STM150-RDI 120 / 230V Static Switch



Model SYS 3000 Controller

**Costing on System
on Request**

TECHNICAL SPECIFICATIONS

MODEL		48VDC input	230 VDC output
Input Specifications	Operating voltage range	40 up to 80 Vdc	
	Stopping voltages (+1 V)	40 and 80 Vdc	
	Restart voltages (+1 V)	43 and 77 Vdc	
	Maximum Input current @ 40 VDC	<88A	
	lin max. at Uin=48V, 100% overload	<140A	
	Inrush current	<1 nom.	
Output Specifications	Nominal output voltage	230V, adjustable 208...240Vac	
	Output voltage tolerance	± 3% of adjusted 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	17,4A	
	Short circuit output current (Typ.)	55A	
Output power	Crest factor at nominal power	3	
	Nominal Value	3500W / 4000VA	
	Permanent Overload (rated in VA)	110 %	
	Overload (+/- 15%, 5 sec. Max, self protected)	6000W / 6000VA	
Electro magnetic compatibility	Power factor influence	Full power output (4000VA) with Pf from 0 to 0,87 Limited to 3500W with Pf from 0,87 to 1	
	Standard 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		
Efficiency (@ nominal power, Pf = 1)		>89%	
Temperature	Storage temperature	-40°C to 80°C	
	Permissible ambient temperature	-20°C to 50°C	
MTBF (according MIL-HDBK 217F)		>250000h	
Dielectric strength		4300 Vdc input / output 4300 Vdc output / ground 2000 Vdc input / ground	
Input and output fuses (Internal)	DC input fuse (Class T, fast acting)	A3T100 / 100A / 160VDC / 50KA I.R. / UL listed	
	AC output fuse (Form 101)	A60Q35-2 / 35A / 600VAC / 200KA I.R. / UL Recognised	
Safety		EN60950 / UL 1950	
Dimensions (WxDxH)		438 mm x 348 mm x 2U	
Weight (Kgs, approximately)		15	

We reserve the right to change specifications without prior notice

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