



Illustrative photo

### General Features

- Light and compact modules
- High efficiency, high MTBF
- Smart overload features (permanent overload up to 120%)
- Intelligent protection level and temperature management
- Large DC input voltage range
- Front panel connections for all interfaces and power cables
- Display of output power
- Patented technology

### Application

- Telecom, industrial, control and security technologies

### Description

The STI / G2 inverter module is an up-to-date high efficiency, high frequency switch mode DC/AC converter, especially developed for AC needs in Telecoms.

The STI / G2 offers output characteristics with full sinusoid, stable output voltage in static or dynamic conditions. A smart digital control technique allows very fast response time to any load variation, as well as good overload capabilities.

The wide input voltage range (from 40 up to 80 VDC) allows using this inverter with any Telecoms application using 48/60 VDC input.

The environmental friendly design of this range complies with European and International Telecoms standards

### Technical data

Model	STI / G2 300VA – 48/60VDC – 120 VAC	STI / G2 300VA – 48/60VDC – 230 VAC
<b>Input</b>	120 VAC	230 VAC
Operating voltage range	40 až 80 VDC	
Maximum input current	< 9 A	< 9 A
<b>Output</b>	120 VAC	230 VAC
Nominal output voltage	120 V, (108 ÷ 125 VAC)	230 V, (200 ÷ 240 VAC)
Output voltage tolerance	±3% of adjustable nominal voltage	
Output voltage frequency	50 or 60 Hz (selectable)	
Total harmonic distortion (THDi)	≤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	
<b>Output power</b>	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	
<b>EMC</b>	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	
<b>Efficiency</b>	120 VAC	230 VAC
Efficiency	85%	87%
<b>Temperature</b>	120 VAC	230 VAC
Storage temperature	- 40°C ÷ + 80°C	
Permissible ambient temperature	- 20°C ÷ + 50°C	
<b>Safety</b>	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	
<b>Mechanics</b>	120 VAC	230 VAC
Cooling	Natural	
Dimensions (wdh)	436mm x 340mm x 1U	
Weight (app.)	4,5 kg	