

TSI-VEDA REG 48/230

Modular Inverter without single point of failure



The TSI is designed according to the golden rules of **True Redundant Systems**. One of the most important features is the disconnection capability. A TSI converter has no less than 3 disconnecting levels in series (i.e. electronics, relay and fuse) on its DC power port as well as an optical isolation on the double communication bus.

Extremely compact with total depth of 264 mm, the VEDA range is specifically designed for ETSI and even outdoor enclosures with a very wide T° operating range of -25°C to +65°C.



GENERAL

EMC (immunity)	EN 61000-4
EMC (emission)	EN 55022 (Class 1)
Safety	EN 60950
Cooling	Forced
Isolation	Doubled
MTBF	230000 hrs
Efficiency (Typical)	
On Line	88%
Dielectric strength DC/AC	4300Vdc
True Redundant Systems	Compliant
3 disconnection levels on AC _{out} and DC _{in} power ports (electronics , fuses, relays)	
RoHS	Compliant
Connection I/O	Terminal block
Protected against inversion of polarity	
Self adaptive to wide operating conditions and comprehensive table of troubleshooting codes	

AC OUTPUT POWER

Nominal Output power	600 VA @50°C
	500 VA @65°C
Output power (resistive load)	480 W @50°C
	400 W @65°C
Short time overload capacity	150% 15 second
Permanent overload capacity	110%
Admissible	Full power rating from
load power factor	0 inductive to 0 capacitive
Internal temperature management and switch off	

DC INPUT SPECIFICATIONS

Nominal voltage (DC)	48 V
Voltage range (DC)	40 - 60 V
Nominal current (at 48Vdc)	12 A
Maximum input current (for 15 second)	21 A
Voltage ripple	2mV
Input voltage boundaries user selectable	

AC OUTPUT SPECIFICATIONS

Nominal voltage (AC) (*)	230 V
Voltage range (AC) (Adjustable)	200 – 240 V
Voltage accuracy	2 %
Frequency	50 – 60 Hz
Frequency accuracy	0.03 %
Total harmonic distortion (resistive load)	<2 %
Load impact recovery time	0.4 ms
Turn on delay	30 s
Nominal current	2,17 A
Protected against reverse current	
Crest factor at nominal power	3
With short circuit management and protection	

ENVIRONMENT

Altitude above sea	< 4,900 Ft
Ambient temperature	-25 to 65 °C
Storage temperature	-40 to 80 °C
Relative humidity	95% , non condensing

SIGNALING & SUPERVISION

Display	Synoptic LED
Alarms output	Dry contacts on shelf
Supervision	Use optional devices

WEIGHT & DIMENSIONS

Width	19"
Depth	264 mm
Height	1 U
Weight	5 kg (Shelf + 2 modules)
Material (casing)	Coated steel

(*) Operation within lower voltage networks leads to derating of power performances.

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