

TSI VEDA Pack 2 48/230*Version 01*

TSI VEDA Pack 2-48Vdc/230AC

Modular Inverter without single point of failure



The TSI VEDA Pack 2 consists of one shelf equipped with 2 Inverter module TSI VEDA and AC output distribution. Each module is 500VA/400W power rating. It is a "hot swap" system where one can be replaced without any specific process

The TSI VEDA Pack 2 has 2 IEC output socket each protected with a (5x20) 10A fuse ideal to connect direct IT equipment and have secure power supply from 48VDC source. The AC output is pure sine compliant to all telecom standard

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 at least 3 disconnecting levels in series (i.e. a relay, a fuse...) on each power port as well as an optical isolation on the double communication bus.

Extremely compact with total depth of 264 mm, VEDA range is specifically design for ETSI and even outdoor enclosure with a very high operating T° range -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)	87%

Dielectric strength DC/AC	4300Vdc
True Redundant Systems	Compliant
3 disconnection levels on AC _{out} and DC _{in} power ports	

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	1000 VA/800W 2 module 500VA
Output power (resistive load)	400 W
Short time overload capacity	150% 2 second
Permanent overload capacity	110%
Admissible load power factor	Full power rating from 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 40Vdc)	2x10 A
Maximum input current (for 5 second)	2x15 A
Voltage ripple	2mV

AC OUTPUT SPECIFICATIONS

Nominal voltage (AC) (*)	230 V
Voltage range (AC) (Adjustable)	210 – 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	20 s
Nominal current	4,4A with 2 modules
Protected against reverse current	
Crest factor at nominal power	3
With short circuit management and protection	

ENVIRONMENT

Altitude above sea	< 4,900 Ft
Operating 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 OVERALL DIM. SHELF

Width	19"
Depth	267 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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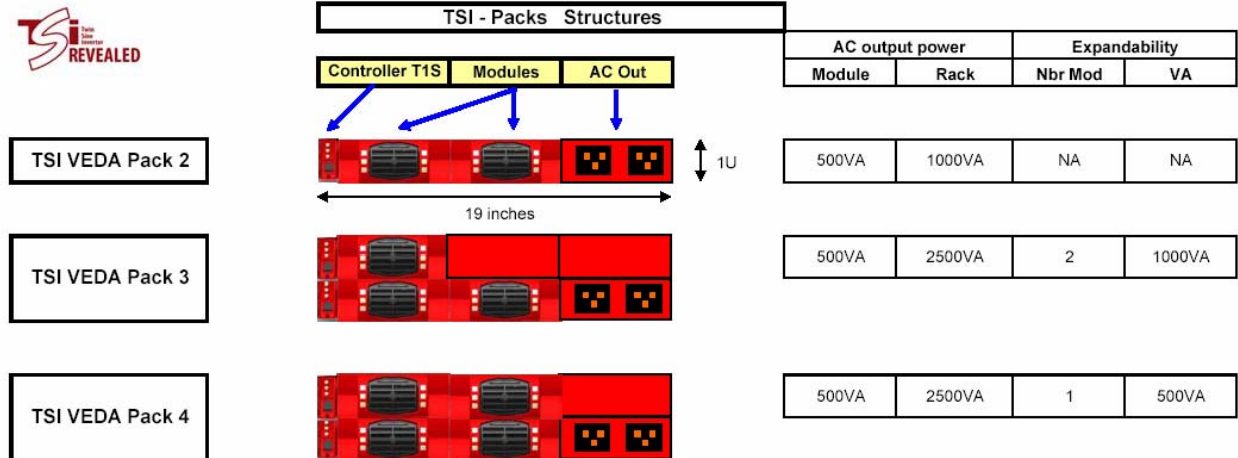
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The VEDA Pack solution exist in 4 configurations listed below :

Model	Part nbr	DC in	Max output Power	Nbr Unit installed	Free slot	Dimensions HxDxW mm
TSI VEDA Pack 2	S34P73R0202S	48V	1000VA	2x500VA (1000VA)	NA	44,5x264x483 mm
TSI NOVA Pack 3	S34P73E0305S	48V	2500VA	3x500VA (1500VA)	2x500VA	89x264x483 mm
TSI NOVA Pack 4	S34P73E0405S	48V	2500VA	4x500VA (2000VA)	1x500VA	89x264x483 mm
TSI VEDA Module	T341730211	48V	500VA	NA	NA	NA



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