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TSI BRAVO 125/120



MODULAR INVERTER MODULE

POWER 2.5 kVA INPUT 125 Vdc and 120 Vac OUTPUT 120 Vac



DESCRIPTION

TSI Bravo – 125/120 is a compact modular inverter that converts **125 Vdc** power source into **120 Vac** and provides a pure sine wave. By using several modules, we can offer solutions for **two-phase** (2x120Vac + N) or **three-phase** (3x208Vac + N) infrastructures.

The extra AC input ensures a **high overall efficiency** (up to 95%) which results in a reduction of energy loss and heat dissipation.

This module has a **modularity from 2.5 kVA to up to 80 kVA** in order to be able to evolve with your needs. The hot swap feature makes maintenance easier and reduces the risk of errors.

The low ripple voltage avoids any disturbances on DC loads and batteries.

APPLICATIONS

All business critical applications and all types of AC loads. The design is modular and scalable with hot- swappable inverter modules which ensures low Mean Time to Repair (MTTR), reduction in service costs and meets the changing needs for future expansion.

MAIN FEATURES

- >>> Extra AC input for increased efficiency
- >> Compact design
- >> Up to 80 kVA
- >>> No disturbances on DC loads & batteries



Illustrations are non-binding and may include customized fitting

Leading AC Backup Technology

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>> TSI BRAVO

	TSI Bravo - 125 / 120
GENERAL	
Part number	T321350201
EMC (immunity)	IEC 1000 - 4
EMC (emission) (class)	FCC part 15
Safety	cUL 1778 Recognized
Cooling / Isolation	Forced / Doubled
MTBF	240 000 hrs (MIL-217-F)
Efficiency (Typical): Enhanced power conversion / on line	95% / 91%
Dielectric strength DC/AC	4300 Vdc
Frue Redundant Systems – compliant	3 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC in port
RoHS	Compliant
/ibration	GR63 office vibration 0 to 100 hz-0.1 g / transport vibration 5-100 Hz 0.5 g 100 to 500 hz-1.5 g / Drop test
Operating ambiance / Ingress Protection	Free from dust and corrosive materials / NEMA 1
Ititude above sea without de-rating	< 1500 m / derating > 1500 m – 0.8 % per 100 m
mbient / storage temperature / relative humidity	-20 to 50 ° C / -40 to 70 ° C / 95 %, non-condensing
laterial (casing)	Coated steel-ALU ZINC
C OUTPUT POWER	
Iominal Output power (VA) / (W)	2500 / 2000
hort time overload capacity	150 % (15 seconds) 110 % permanent within T° range
dmissible load power factor	Full power rating from 0 inductive to 0 capacitive
nternal temperature management and switch off	2 %/°C derating beyond 50° C with cut off at 65° C
DC INPUT SPECIFICATIONS	
Iominal voltage (DC)	125 V
oltage range (DC)	90 - 160 V
Iominal current	25 A (at 90 Vdc and 2000 W output)
Aaximum input current (for 15 second) / voltage ripple	37 A / < 200 mV rms
	User selectable with T2S interface
nput voltage boundaries	
Nominal voltage (AC)	120 Vac (120/240 V or 120/208 V with combination of shelves)
/oltage range (AC)	100 - 138 Vac (without derating) (can be disabled)
Brownout	80 - 100 Vac use DC source contribution if need be (can be disabled)
	2000 VA/1600 W @ 100 VAC
Conformity range before transfer to DC	Adjustable
Power factor	>99%
requency range (selectable) / synchronization range	50 – 60 Hz / range 47 – 53 Hz / 57 – 63 Hz
AC OUTPUT SPECIFICATIONS	
Iominal voltage (AC*)	120 V
Frequency / frequency accuracy	50 - 60 Hz / 0.03 %
otal harmonic distortion (resistive load)	< 1.5 %
.oad impact recovery time	0.4 ms
urn on delay	20 s to 40 s depending on the number of module installed
Iominal current. Protected against reverse current	21 A
Crest factor at nominal power	2177
Vith short circuit management and protection	3 : 1
Short circuit clear up capacity	10 x I _n for 20 msec - Available while Mains is available at AC input port
hort circuit current after clear up capacity	2.1 l, during 15 s and 1.5 l, after 15 s
N TRANSFER PERFORMANCE	
Max. voltage interruption / total transient voltage duration (max) SIGNALING & SUPERVISION	0 s / 0 s
	Ourse-He LED
Display	Synoptic LED
Remote on / off	on rear terminal of the shelf via T2S
Alarms output / supervision Remote on / off	Dry contacts on shelf / Standard USB port and MODBUS on T2S, optional : Candis Display / Candis on rear terminal of the shelf via T2S

TSI Bravo - 125/120 - Datasheet v1.1 Specifications can charge without notice. New data will be updated on our Web site: www.cet-power.com. The present equipment is protected by several international patents, trademarks and copyrights.





*Operation within lower voltage networks leads to de-rating of power performances.



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