EALED >>> A revolution in power

TSI MEDIA 48/120 inverter platform Triple port inverter without single point of failure



Parallelable, rack-mounted inverter systems provide a pure AC sine wave output at 120V or 240Vac, 60 or 50Hz, with a THD <3% for any kind of load. Utilizing 48Vdc input, these high density systems range from 1500VA to 6000VA and are mountable in either a 19in open relay rack or conventional box bays.

The TSI sets the standard for True Redundant Systems:

- Hot Swappable means of disconnect
- Distributed Static Transfer Switch (STS) function – removes system **Single Point of Failure**
- Parallelable for redundancy and increased reliability
- Automatic load sharing when paralleled
- System sound handling of internal or load generated short circuits

Unlike traditional inverters, the TSI features an AC-AC conversion that double filters and isolates the AC input. When operated in this "**Enhanced Power Conversion**" (**EPC**) mode, your overall efficiency is increased to 94% without compromise to the quality and stability of the output wave form. Unlike hard transfers between energy input sources the TSI "softswitching "method is disturbance free. The TSI delivers pure power to your critical load despite normal disturbances such as harmonics, surges, glitches, voltage fluctuations, etc.. Pure sinusoidal output current delivered even in non-linear load conditions. Pure sine wave at the output and ideal power factor at the input without drawing any energy from your DC supply source

Your future power demands are likely to be unknown and unpredictable. You get TOTAL MODULARITY with the TSI since there is no need to size a single static switch for the future power demand of the system. With the TSI you can configure your system as you gradually increase its capacity in line with your increasing load demands. No need to oversize or overspend on your initial purchase.

Compact in size, these inverters enable you to deliver maximum power in limited space. Its massive power density provides up to 3000VA in a 2U package or 6000VA in a 4U. This package includes the space savings of built-in STS function, DC and AC distribution and output PDU. These modules can be configured with standard Nema or Twist Lock receptacles allowing for simple application and installation of the TSI-MEDIA platform systems without any need for additional hardware.

These inverters can be mounted in 19-inch open relay racks or box bays.

MEDIA packages are compatible with standard TSI monitoring devices.

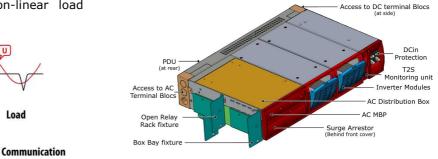


Fig: TSI-MEDIA platform 3000VA

Specifications can change without notice. New data will be updated on our Web site: <u>http://www.cetamerica.com/</u> or <u>http://www.cet.be/</u> The present equipment is protected by several international patents, trademarks and copyrights.

CE+T America Inc. 1075 Satelitte Boulevard - Suite 400 GA 300 24 SUWANEE-ATLANTA - USA

AC source

DC source

Tel +1 678 405 4636 Fax: +1 770 495 0992 ISO 9001 I certified I

>> A revolution in power

TSI MEDIA 48/120

Technical features

Version 06

GENERAL

EMC (immunity)	IEC 1000-4
EMC (emission)	FCC PART 15
Safety	UL 1778 (Ed.4)
Cooling	Forced
MTBF	>200 000 hrs
Efficiency (MAX) On	Line 90%
Enhanced Power Conversion (EPC) 93%
Dielectric strength DC/AC (@ 0	,6mA) 4300Vdc
True Redundant Systems	Compliant
3 disconnection levels on AC _{out} and DC _{in} power ports	
4 disconnection levels on AC _{in} port / 2 communication bus	
RoHS-6	Compliant
	Terminal block
Connection I/O Or NEMA	receptacle Or Twist Locks
Or com	bo AC output receptacles
Protected against reversed polarity	
Self adaptive to wide operating conditions	

EALED

AC OUTPUT POWER

Nominal Output power (**)	n x 1500 VA
Output power (resistive load) (**	*) n x 1200W
Short time overload capacity	150% 15 second
Permanent overload capacity	110% @ 40℃
Load power factor	Full power rating from 0 inductive to 0 capacitive
Internal temperature management and cut off	

DC INPUT SPECIFICATIONS

Nominal voltage (DC)	48 V
Voltage range (DC)	40 - 60 V
Nominal current (at 40Vdc) (**)	n x 34 A
Maximum input current (for 5 sec.) (**)	n x 42 A
Voltage ripple (resistive load @ 54Vdc)	< 1mV
Input voltage boundaries user selectable	

AC INPUT SPECIFICATIONS

Nominal voltage (AC)	120V 1P or 2P
Voltage range (AC) (each pha	se) 83 – 140 V
Conformity range	Adjustable
Power Factor	>99%
Frequency range (selectable)	50 - 60 Hz
Synchronization range	47 – 53 Hz / 57 – 63 Hz

120V or 240 V Nominal voltage (AC) (Single or dual phase selectable at order) 90 – 130 V Voltage range (AC) (adjustable) 2 % Voltage accuracy 50 – 60 Hz Frequency 0.03 % Frequency accuracy Total harmonic distortion (resistive load) <3 % 0.4 ms Load impact recovery time Turn on delay 30 s n x 12.5 A Nominal current (**) Protected against reverse current Crest factor at nominal power 2.2 With short circuit management and protection Short circuit clear up capacity 10 x In for 20msec

Available while Mains is available at AC input port With magnitude control and management

TRANSFER PERFORMANCE

AC OUTPUT SPECIFICATIONS

Total transient voltage duration (transient free) 0 s

ENVIRONMENT

Altitude above sea	<1500m
Ambient temperature (**)	n x 1500VA -20 to 50 °C
	Pmax at 100% LOAD
	Derating up to 65℃
Storage temperature	-40 to 70 ℃
Relative humidity	95% , non condensing

SIGNALING & SUPERVISION

Display	Synoptic LED
Alarms output (optional)	Dry contacts on shelf
Supervision	Use optional devices
Comprehensive table of troubleshooting codes	

WEIGHT & DIMENSIONS

Width	19" or 23" Open relay rack and box bay compatible
Depth	12.5-inch - 300 mm
Height	1500/3000VA →2 U
Weight	7.9 Kg + n x 2.4 Kg
Material (casing)	Coated steel
(*) Operation within lower voltage networks leads to derating of power performances	

(**) "n" stands for Number of Modules in parallel

Specifications can change without notice. New data will be updated on our Web site:

http://www.cetamerica.com/ or http://www.cet.be/

The present equipment is protected by several international patents, trademarks and copyrights.

CE+T America Inc. 1075 Satelitte Boulevard - Suite 400

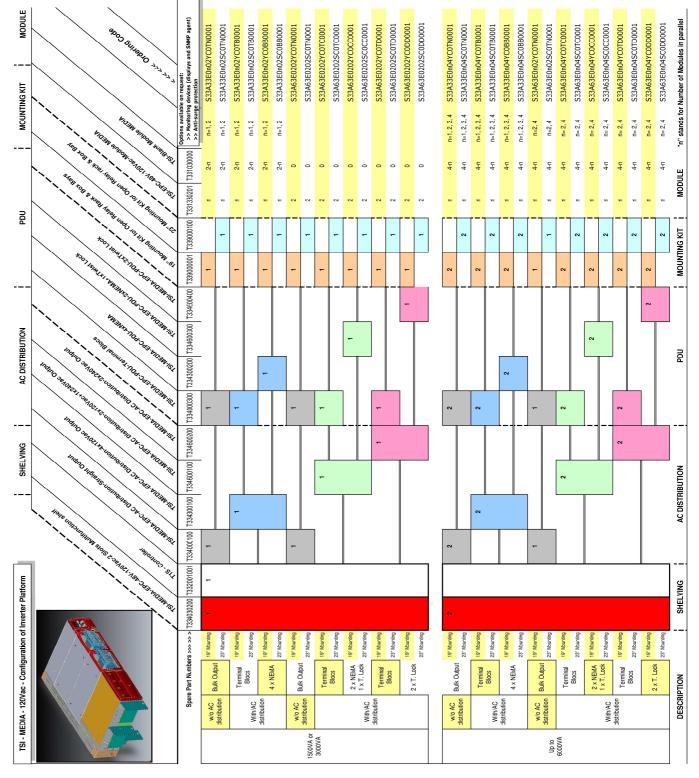
GA 300 24 SUWANEE-ATLANTA - USA

Tel +1 678 405 4636 Fax: +1 770 495 0992





>> A revolution in power



Specifications can change without notice. New data will be updated on our Web site: <u>http://www.cetamerica.com/</u> or <u>http://www.cet.be/</u> The present equipment is protected by several international patents, trademarks and copyrights.

CE+T America Inc. 1075 Satelitte Boulevard - Suite 400 GA 300 24 SUWANEE-ATLANTA - USA

Tel +1 678 405 4636 Fax: +1 770 495 0992 ISO 9001 I certified I