

3-Phase 75 KVA Inverter System

Benefits

- Energy Efficient – the Twin Sine Inverter (TSI) performance is unmatched in the industry
- Maximum Reliability
- Up to 10 KVA in one 19 inch 2U rack space
- Efficiency up to 95%
- 75KVA 3-phase and 80KVA dual phase in one cabinet with additional U space for rectifiers
- Hot Swappable 2.5 KVA or 1.5 KVA TSI modules simplify replacement or growth additions.
- Remote Monitoring via SNMP option

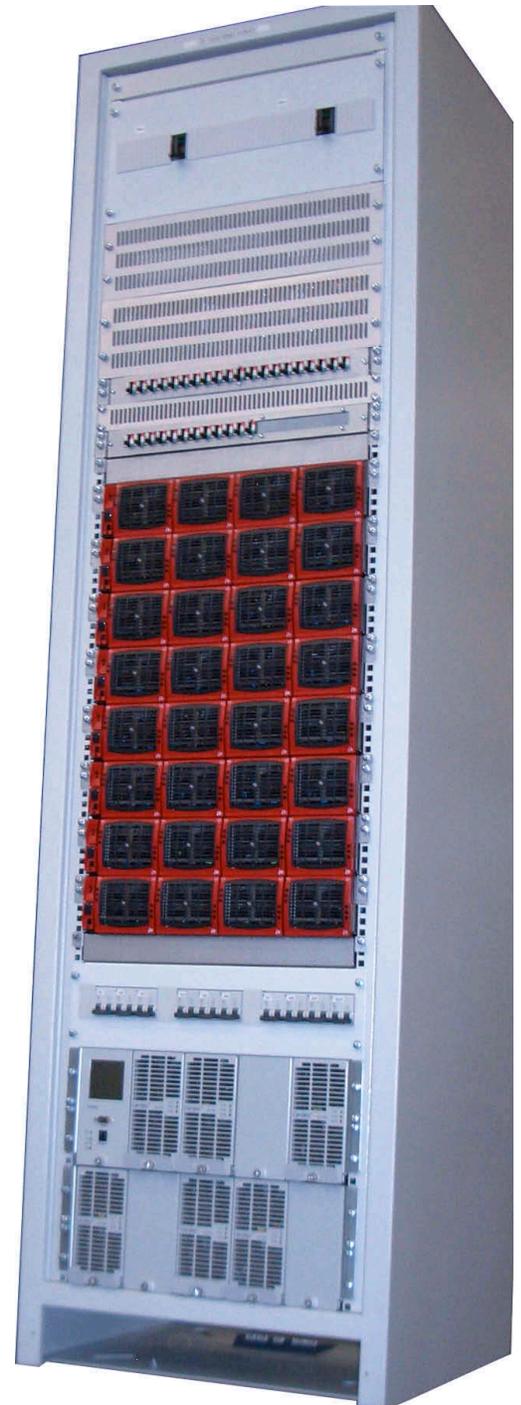
CE+T is a solutions provider for the telecommunication, industrial, and data center markets in support of their critical power requirements. Founded in 1936, CE+T is an industry leader in power conversion technology. The announcement of the **TSI** has revolutionized the inverter market with its new range of modular scalable products to support telecom (24VDC, 48VDC) and industrial (110VDC, 220VDC) applications.

Building your system portfolio to meet your varied power demands requires you to have an easily configurable product architecture. **TSI** technology makes it simple to size and select your inverter configuration without compromising the performance of your system or your budget.

The **TSI** inverter is modular and scalable to capacities up to 75KVA 3 phase, 80KVA dual phase and is easily configured to your current and future AC requirements. **TSI** inverters are available in either 1500VA (Media) or 2500VA (Bravo) building blocks.

The **TSI** Distributed Static Transfer Switch Technology eliminates the single point of failure in a traditional inverter design. Unlike hard transfers between energy input sources the **TSI** “soft switching” method is disturbance free.

The **TSI** inverter is field upgradeable and its hot swappable modular design reduces risks caused by exposing your critical load to an unpredictable AC source. There is no need to go to bypass when adding or changing the capacity of your inverter system.





Technical Specifications

GENERAL

EMC (immunity)	EN 61000-4
EMC (emission)	EN 55022 (Class B)
Safety	UL Pending
Cooling	Forced
Isolation	Doubled
Efficiency (Typical)	
• Enhanced Power Conversion	95%
• On Line	90%
Dielectric strength DC/AC	4300Vdc
Connection I/O	Terminal block
Reverse polarity protection	
RoHS	Compliant

AC OUTPUT POWER

Nominal Output power (max)	75,000 VA
Output power (resistive load)	60,000 W
Short time overload capacity	150% 5 seconds
Permanent overload capacity	110%
Load power factor	Full power rating from 0 inductive to 0 capacitive
Internal temperature management	

DC INPUT SPECIFICATIONS

Nominal voltage (DC)	48 V
Voltage range (DC)	40 -60 V
Nominal current (at 40Vdc)	1680 A
Maximum input current (for 5 second)	2520 A
Voltage ripple	2mV
Input voltage boundaries	user selectable

AC INPUT SPECIFICATIONS

Nominal voltage (AC)	120 V
Voltage range (AC)	83 – 140 V
Conformity range	Adjustable
Power Factor	>99%
Frequency range (selectable)	50 -60 Hz
Synchronization range	47 – 53 Hz 57 – 63 Hz

AC OUTPUT SPECIFICATIONS

Nominal voltage (AC) (*)	120 V
Voltage range (AC) (Adjustable)	90 – 130 V
Voltage accuracy	2%
Frequency	50 -60 Hz
Frequency accuracy	0.03%
Total harmonic distortion (resistive load)	<1.5 %
Load impact recovery time	0.4 ms
Soft Start time	20 s
Nominal current	208 A/Phase
Protected against reverse current	
Crest factor at nominal power	3.5
Short circuit overload capacity	10 x In for 20msec

TRANSFER PERFORMANCE

Maximum voltage interruption	0 s
Total transient voltage duration (max)	0 s

ENVIRONMENT

Altitude above sea	< 4,900 Ft
Ambient temperature	-20 to 50 °C
Storage temperature	-40 to 70 °C
Relative humidity	95% , non condensing

SIGNALING & MONITORING

Display	LED
Alarms	Dry contacts
Monitoring	Via T2S Controller

WEIGHT & DIMENSIONS

Width	24"
Depth	24"
Height	72" or 84"
Weight	Approx. 500 lbs

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