



TSI T1PS Inverter Systems

Leading Conversion Technology for Power Resilience



Benefits

- Network Equipment Building Space (NEBS) Level III compliant
- Seismic zone 4 compliant
- Energy Efficient: The TSI technology performance is unmatched in the industry, 95% in AC to AC double conversion (EPC mode).
- Maximum Reliability: The TSI technology eliminates the Static Transfer Switch (STS), the single point of failure in a traditional inverter design
- Scalable: TSI features a parallel design. Hence, modules are HOT-swappable and field upgradable.
- Power Density: The TSI inverter has the industry's highest power per square area.
- Enhanced Power Conversion (EPC): Processes all incoming AC mains supply to ensure clean, reliable power is delivered to the critical applications.

The Challenge

Meeting the diverse and changing power requirements of today's mission critical loads

The Solution

The <u>Tier One Power Supply</u> (T1PS) with hot-swappable inverter modules connected to the AC & DC sources, producing an uninterrupted, reliable AC supply.

Why CE+T Power?

CE+T is the AC critical power solutions provider for the Telecom, Industrial Oil & Gas, and Data Centre markets. CE+T is an industry leader in the power conversion technology. TSI technology has revolutionized the inverter market with its new range of module, scalable products to support telecom (48V) or industrial (110V, 220V, 400V DC) applications.

The System

With the BRAVO-2500VA inverter modules as its building blocks, the TSI T1PS systems are modular and scalable to capacities up to 225kVA (75kVA per cabinet). They are easily configured to your current and future AC power requirements.





TSI T1PS Inverter Systems

General

•	EMC (immunity)	EN 61000-4
•	EMB (emission)	EN 55022 (Class A)
•	Safety	UL1778 Listed
•	Cooling	Forced
•	Isolation	Doubled
•	MTBF	240,000 hrs
	Efficiency (Typical)	

Efficiency (Typical)

Enhanced Power Conversion 95%
On-Line Mode 90%
Dielectric strength DC/AC 4300Vdc
True Redundant Systems Compliant 3 disconnection levels on ACout and DCin power ports 4 disconnection levels on ACin port

RoHS Compliant

Connection I/O Terminal Block
Protected against inversion of polarity

NEBS Compliance Level 3Seismic Rating Zone 4

AC OUTPUT POWER

•	Nominal Output Power	Up to 225kVA
•	Nominal Voltage (L-N)	120V
•	Output Power (Real Load)	Up to 180kW
•	Voltage Range (L-N)	90-130V
•	Voltage Accuracy	+/- 1%
•	Frequency	50/60 Hz
•	Frequency Accuracy	+/- 0.1%
•	Load Impact Recovery Time	0.4 ms
•	Short time Overload Capacity (15s)	150%
•	Permanent Overload Capacity	110%
•	Turn On Delay	40s
est significant	Nominal Current per Module	21A
Philippin and the state of the	Crest Factor at nominal power	#3.1 In
patalantalan	With short circuit management and	protection
pre plactic	Short circuit clear up capacity	10x In for 20ms
in the state of th	Admissible Load power factor (pF)	and applications of the second sections of the second section of the
italia kalendaria ka	Full power rating from 0 inductiv	e to 0 capacitive
entering to the second	Internal temperature management	and switch off

TRANSFER PERFORMANCES

Maximum Voltage Interruption 0s

Total transient voltage duration (max) 0s

DC INPUT SPECIFICATIONS

Nominal Voltage	48V	110V	220V	380V
Voltage Range	40-60	80-160	150-300	280-400
Nominal Current				
at Low Voltage	63A	31A	17A	9A
cutoff (per	USA	317	1//	JA
module)				
Maximum				
Overload Input	95A	47A	25A	13A
Current (per		4/A	23A	134
module)				All A

Voltage Ripple

<2mV

AC INPUT SPECIFICATIONS

•	Nominal Voltage (L-N)	120V
•	Voltage Range	83-140V
•	Conformity Range	Adjustable
•	Power Factor	Unity (PFC)
•	Frequency Range (selectable)	50/60 Hz
-	Synchronization Range	47-53 Hz
A PERSON AND A PER	apple apple apple	57-63 Hz

ENVIRONMENT

Altitude above sea level without derating <5000 ft

Derating slope upper than 5000ft 0.8% / 300ft

Ambient Temperature -20 to +40 C

Storage Temperature -40 to +70 C

Relative Humidity 95%, non condensing

SIGNALING & SUPERVISION

Display	LED + Touchscreen
Alarms Output	Dry Contacts
Monitoring	TCP-IP, Modbus, SNMP

WEIGHT & DIMENSIONS

•	Width	24"
•	Depth	30"
•	Height	84"
•	Weight (approx.)	840 lbs
	Material	Coated Steel