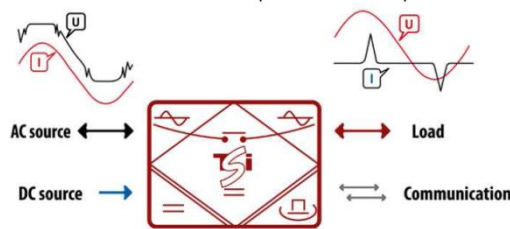


10kVA AC INVERTER SYSTEM

220V_{DC}-230V_{AC}

This concept allows for the first time to build AC power systems by removing any possible “Single Point of Failure” with full scalability and high efficiency.

Based on one multifunctional module it leads to truly redundant parallel architectures. This Inverter System can be widely used in DC-AC marine applications across the globe. Each inverter module has built in a static switch



BRAVO 10kVA 230V_{AC} INVERTER

MARINE & OFFSHORE

Doc CIN0425.002.DS3 – rev2M

PRODUCT DESCRIPTION

The TSI “Twin Sine Inverter” is the very latest generation of power modules that is creating a revolution on the DC/AC inverter marketplace.

The TSI design meets the golden rules of TRUE REDUNDANT SYSTEMS (TRS) principles that make this system an ideal solution to preserve critical loads and assets. TSI concept is a modular “hot swap” solution that eliminates all “single points of failure”.

The AC-to-AC conversion via batteries chain isolates the AC output from the AC input and features a double filtering function.

The TSI inverter is able to supply 10 times its normal output current in case on downstream short-circuit in the AC distribution. This short-circuit current is also controlled in magnitude to prevent tripping of the upstream breaker.

TSI is SAFE for your load and your operations.

- Efficiency up to 96%
- Reduction energy losses by 70%
- Positive carbon impact “Green solution”
- Elimination of external static switch and rectifier
- Expandable solution and modular architecture
- AC mains filtering
- Process and Heavy industry
- Galvanic isolation from AC input when AC output is supplied from batteries

APPLICATION

- Offshore
- Ships
- Part of the Eltek Central Power System

KEY FEATURES

- DNV CERTIFICATE
- NO SINGLE POINT OF FAILURE
- EFFICIENCY AND SELECTIVITY
- FULL SCALABILITY
- CLEAN OUTPUT
- TRANSFER TIME REDUCED TO ZERO



BRAVO 10kVA 230VAC INVERTER



MODEL	
Part number	CINV0425.002
INPUT DATA (DC)	
Nominal voltage	2 x 220V DC
Voltage range (DC)	170V _{AC} – 300V _{AC}
Nominal current (at 220Vdc and 2000W output)	9.8A (one module); max 14.9A for 15 second
Input connection	10 mm ² terminals
Input protection	2 x 2 x C16A 2 pole MCB
INPUT DATA (AC)	
Nominal voltage (AC)	230V L+N Note: N goes through to the AC output side
Voltage range (AC)	185-265V (full power)
Power factor	>99%
Frequency range (selectable)	50-60Hz
Input protection	C40A 2 pole MCB
OUTPUT DATA	
Nominal output power (VA / W)	10.000VA (4 x 2500VA) / 8000W (4 x 2000W)
Nominal voltage	230V; 2%
Voltage range (AC)	200 - 240V
Frequency	50-60Hz; 0.03%
Total harmonic distortion (THD)	<1.5%
Maximum current (4 inverter modules)	43.5A (4 x 10.87A)
Short circuit clear up capacity (AC mains available)	10 x I _n for 20msec; 1.5 x I _n after 15sec
Number of load MCBs / Size of connections	28 x C10A / 4 mm ² terminals
CONNECTIONS	
Alarm connections	1.5 mm ²
OTHER SPECIFICATIONS	
Temperature	Operating: -20 to +50°C Storage: -40 to +70°C
Relative humidity	95%, non-condensing
Dimensions (H x D)	1200 x 600 x 600 mm (HxWxD) (without plinth and vibration abs.)
Weight	Net weight: 129 kg, Gross weight: 169 kg
DESIGN STANDARDS	
Cabinet	IP44
EMC	ETSI EN 300-132-2 EN 55022 (Class B)
Safety	IEC/EN 60 950-1 & 62040-1 for inverter IEC/EN 62 040-1 for shelves
Marine	ABS (PENDING) DNV-OS-D202, Ch.2 Sec. 4 (DNV 2.4) o Temperature Cl. A o Vibration Cl. A o Humidity Cl. A o Enclosure Cl. A
ORDERING INFORMATION	
CINV0425.002	INV 2x220V 10kVA 230V Bravo
241560.322	Bravo TSI 2.5kVA-220Vdc 230Vac EPC