



ALPHA
OUTBACK
ENERGY



TSI MEDIA 120 VAC



TELECOM



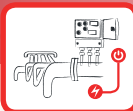
DATA COM



MASS TRANSIT



OIL & GAS



POWER UTILITIES



MODULAR INVERTER MODULE

POWER 1.5 kVA
INPUT 48 Vdc
OUTPUT 120 Vac



DESCRIPTION

MEDIA is a compact and scalable modular inverter providing a pure sine wave AC supply. In conjunction with a DC Power system, it provides an excellent AC backup solution. It uses the latest inverter technology, providing superior energy efficiency in a compact size.

The "Twin Sine Inverter" (TSI) technology eliminates all single points of failure with full scalability;

up to 32 modules in parallel and high efficiency of up to 96 % reducing operating costs.

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

- » Redundant AC & DC sources
- » Compact form factor with short depth
- » Great disturbance rejection rate
- » Transfer time reduced to naught
- » Permanent AC to AC double conversion
- » Highly efficient energy conversion

Illustrations are non-binding and may include customized fittings.

Leading AC Backup Technology



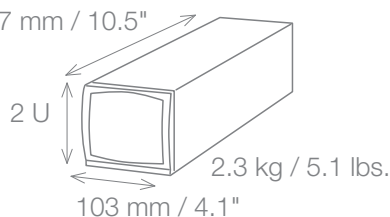
| 48 / 120 | |
|--|---|
| GENERAL | |
| EMC (immunity) | IEC 61000 - 4 |
| EMC (emission) (class) | FCC part 15 |
| Safety | cUL 1778 Recognized |
| Cooling / Isolation | Forced / Doubled |
| MTBF | 240,000 hrs (MIL-217-F) |
| Efficiency (Typical): Enhanced power conversion / on line | 94 % / 90 % |
| Dielectric strength DC/AC | 4300 Vdc |
| True Redundant Systems – compliance | 3 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC in port |
| RoHS | Compliant |
| Vibration | GR 63 office vibration 0 to 100 Hz-0,1g / transport vibration 5-100 Hz 0,5 g 100 to 500 Hz-1,5 g / Drop test |
| Operating ambience / Ingress Protection | Free from dust and corrosive materials / NEMA 1 |
| Altitude above sea without de-rating | <1500 m / derating >1500 m – 0.8 % per 100 m |
| Ambient / storage temperature / relative humidity | (-20 to 40° C) -4° F to 104° F / (-40 to 70° C) -40° F to 158° F / Non condensing |
| Material (casing) | Coated steel-ALU ZINC |
| AC OUTPUT POWER | |
| Nominal Output power (VA) (W) | 1500 / 1200 |
| Short time overload capacity | 150 % (15 s) 110 % permanent within T° range |
| Admissible load power factor | Full power rating from 0 inductive to 0 capacitive |
| Internal temperature management and switch off | 1 %/° F (2 %/° C) derating beyond 104° F (40° C) with cut off at 149° F (65° C) |
| DC INPUT SPECIFICATIONS | |
| Nominal voltage (DC) | 48 V |
| Voltage range (DC) | 40 - 58 V |
| Nominal current | 31.75 A (at 40 Vdc and 1200 W output) |
| Maximum input current (for 15 s) / voltage ripple | 36 A / <2 mV Psopho |
| Input voltage boundaries | User selectable with T2S interface |
| AC INPUT SPECIFICATIONS | |
| Nominal voltage (AC) | 120 Vac (120/240 V or 120/208 V with combination of shelves) |
| Voltage range (AC) | 100 - 138 Vac (without derating) |
| Brownout | 80 – 100 Vac use DC source contribution if need be (can be disabled) 1200 VA/970 W @ 80 VAC |
| Conformity range before transfer to DC | Adjustable |
| Power factor | >99% |
| Frequency range (selectable) / synchronization range | 50 – 60 Hz / range 47 – 53 Hz / 57 – 63 Hz |
| AC OUTPUT SPECIFICATIONS | |
| Nominal voltage (AC*) | 120 V |
| Frequency / frequency accuracy | 50 - 60 Hz / 0.03 % |
| Total harmonic distortion (resistive load) | < 1.5 % |
| Load impact recovery time | 0.4 ms |
| Turn on delay | 20 s to 40 s depending on the number of module installed |
| Nominal current. Protected against reverse current | 12.5 A |
| Crest factor at nominal power | 3 : 1 |
| 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 |
| Short circuit current after clear up capacity | 2.1 In during 15 s and 1.5 In after 15 s |
| IN TRANSFER PERFORMANCE | |
| Max. voltage interruption / total transient voltage duration (max) | 0 s / 0 s |
| SIGNALING & SUPERVISION | |
| Display | Synoptic LED |
| Alarms output / supervision | Dry contacts on shelf / Standard USB port and MODBUS on T2S, optional : Candis Display / Candis TCP-IP |
| Remote on / off | on rear terminal of the shelf via T2S |

TSI MEDIA 120 – Datasheet v1.1 Specifications can change without notice. New data will be updated on our Web site: www.cet-power.com or www.alpha-outback-energy.com. The present equipment is protected by several international patents, trademarks and copyrights.

331 mm / 13"



267 mm / 10.5"



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TSI MEDIA



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