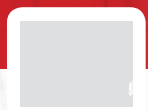




# TSI MEDIA 230 VAC



## MODULAR INVERTER MODULE

POWER 1.5 kVA  
INPUT 48 Vdc  
OUTPUT 230 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 Innovation" (TSI) technology eliminates all single points of failure with full scalability; up to 32 modules in parallel and high efficiency of up to 95% 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

- » Dual input sources (AC & DC)  
with wide AC input range 150 Vac to 265 Vac
- » Compact design
- » High efficiency
- » Transfer time reduced to 0



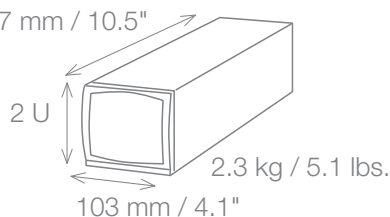
| 48 / 230                                                                       |                                                                                                                                                                       |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GENERAL</b>                                                                 |                                                                                                                                                                       |
| EMC (immunity)                                                                 | EN 61000-4-2 / EN 61000-4-3 / EN 61000-4-4 / EN 61000-4-5 / EN 61000-4-6 / EN 61000-4-8                                                                               |
| EMC (emission) (class)                                                         | EN 55022 (B)                                                                                                                                                          |
| Safety                                                                         | EN 62040-1                                                                                                                                                            |
| Cooling / Isolation                                                            | Forced / Doubled                                                                                                                                                      |
| MTBF                                                                           | > 200 000 hrs (MIL-217-F)                                                                                                                                             |
| Efficiency (Typical): Enhanced power conversion / on line                      | 95% / 91%                                                                                                                                                             |
| Dielectric strength DC/AC                                                      | 4 300 Vdc                                                                                                                                                             |
| True Redundant Systems – compliant                                             | 3 disconnection levels on AC out and DC in power ports<br>4 disconnection levels on AC in port                                                                        |
| RoHS                                                                           | Compliant                                                                                                                                                             |
| Vibration                                                                      | GR63 office vibration 0 to 100 Hz-0.1 g / transport vibration 5-100 Hz 0.5 g 100 to 500 Hz-1.5 g / Drop test                                                          |
| Operating conditions                                                           | Designed for installation in an IP20 or IP21 environment.<br>When installed in a dusty or humid environment, appropriate measures (air filtering, ...) must be taken. |
| Altitude above sea without de-rating                                           | < 1500 m / derating > 1500 m – 0.8 % per 100 m                                                                                                                        |
| Ambient / storage temperature / relative humidity                              | -20 to 50 ° C / -40 to 70 ° C / 95 %, non-condensing                                                                                                                  |
| Material (casing)                                                              | Coated steel-ALU ZINC                                                                                                                                                 |
| <b>AC OUTPUT POWER</b>                                                         |                                                                                                                                                                       |
| Nominal Output power (VA) / (W)                                                | 1500 VA / 1200 W                                                                                                                                                      |
| Short time overload capacity                                                   | 150 % (15 seconds) 110 % permanent within T° range                                                                                                                    |
| Admissible load power factor                                                   | Full power rating from 0 inductive to 0 capacitive                                                                                                                    |
| Internal temperature management and switch off                                 | Yes                                                                                                                                                                   |
| <b>DC INPUT SPECIFICATIONS</b>                                                 |                                                                                                                                                                       |
| Nominal voltage (DC)                                                           | 48 V                                                                                                                                                                  |
| Voltage range (DC)                                                             | 40 - 60 V                                                                                                                                                             |
| Nominal current (at 48 Vdc and 1200 W output)                                  | 28 A                                                                                                                                                                  |
| Maximum input current (for 15 second) / Voltage ripple (resistive load 54 Vdc) | 48 A / < 2 mV                                                                                                                                                         |
| Input voltage boundaries                                                       | User selectable                                                                                                                                                       |
| <b>AC INPUT SPECIFICATIONS</b>                                                 |                                                                                                                                                                       |
| Nominal voltage (AC)                                                           | 220/230/240 V 1P or 3P (min 3 shelves for 3P)                                                                                                                         |
| Voltage range (AC)                                                             | 150 - 256 V                                                                                                                                                           |
| Brownout                                                                       | 150 to 185 V<br>1056 W @ 150 V                                                                                                                                        |
| 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                                                                                                                            |
| <b>AC OUTPUT SPECIFICATIONS</b>                                                |                                                                                                                                                                       |
| Nominal voltage (AC*)                                                          | 220/230/240 V                                                                                                                                                         |
| Frequency / frequency accuracy                                                 | 50 - 60 Hz / 0.03 %                                                                                                                                                   |
| Total harmonic distortion (resistive load)                                     | < 3 %                                                                                                                                                                 |
| Load impact recovery time                                                      | 0.4 ms                                                                                                                                                                |
| Turn on delay                                                                  | 40 s                                                                                                                                                                  |
| Nominal current. Protected against reverse current                             | 6.6 A                                                                                                                                                                 |
| Crest factor at nominal power                                                  | 2.8 : 1                                                                                                                                                               |
| With short circuit management and protection                                   |                                                                                                                                                                       |
| Short circuit clear up capacity                                                | 10 x I <sub>n</sub> for 20 msec - Available when AC input connected and present                                                                                       |
| Short circuit current after clear up capacity                                  | 2.1 I <sub>n</sub>                                                                                                                                                    |
| <b>IN TRANSFER PERFORMANCE</b>                                                 |                                                                                                                                                                       |
| Max. voltage interruption / total transient voltage duration (max)             | 0 s / 0 s                                                                                                                                                             |
| <b>SIGNALING &amp; SUPERVISION</b>                                             |                                                                                                                                                                       |
| 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 230 – Datasheet v1.2 Specifications can change without notice. New data will be updated on our Web site: [www.cet-power.com](http://www.cet-power.com). The present equipment is protected by several international patents, trademarks and copyrights.

331 mm / 13"



267 mm / 10.5"



\*Operation within lower voltage networks leads to de-rating of power performances.

Illustrations are non-binding and may include customized fittings.

Leading AC Backup Technology

