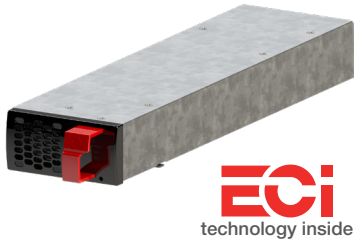
CET POWER
Leading Conversion Technology for Power Resilience

# Bravo 6 - 48/230



ECI technology inside

## Modular inverter to efficiently secure critical applications from 750 VA / 600 W!

Telecom | Datacom | Mass transport | Industry | Power Utilities | Renewable

**AC In** 230 Vac

**DC In** 48 Vdc

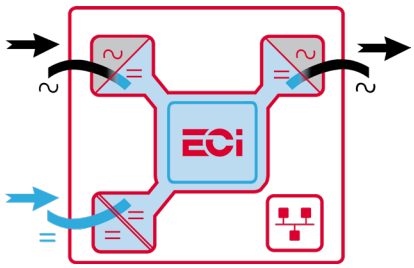
**AC Out** 230 Vac

**Power** 750 VA 600 W

up to 3.75 kVA

## Description

Bravo 6 is a **small modular inverter** offering many opportunities **to design a solution** that perfectly fits your needs. The ECI technology offers both **AC and DC inputs** to provide a **perfect AC power** while reducing the number of power conversion (the module operates under normal condition with the AC input delivering a **94% efficiency**)! In conjunction with the DC input, it provides an excellent **AC backup solution**.




From **1 to 4 modules**, with several **options** available (manual external by-pass and AC distribution), the Bravo 6 modular inverter is also **hot-swappable** meaning a very easy and cheap maintenance. The modules are delivered with our new monitoring solution.

Bravo 6 can be used with the **Inview Slot or Inview GW monitoring**. One shelf can accommodate 5 modules (3.75 kVA with Inview GW) or 4 modules (3 kVA with Inview S Slot) to create an all-in-one solution.


## Applications

An ideal solution for securing small but critical AC loads, from 750 VA to 3 kVA, such as telecom small cells (4G and 5G), access control, traffic lights, security, etc.

### Key features:

- AC and DC input sources (highest efficiency topology)
- 1 to 5 modules
- Customization (manual by-pass and AC distribution)
- Transfer time reduced to 0 ms
- Compact design

Illustrations are non-binding and may include customized fittings.

# Bravo 6 - 48/230

| | |
|---|---|
| **General** | |
| Part Number: Module / Shelf | T651730201 / T614730000 |
| Cooling / Audible noise | Fan forced cooling / < 65 dBA at 1 meter |
| MTBF | 240 000 hrs (MIL-217IF) |
| Dielectric strength DC/AC | 4300 Vdc |
| RoHS | Compliant |
| Operating T° / Relative Humidity (RH) non-condensing | Tested according ETS300-019-2-3 Class 3.1<br>-20°C to 70°C, power de-rating from 60°C to 70°C / Max RH 95% for 96 hours per year |
| Storage T° / Relative Humidity (RH) non-condensing | Tested according ETS300-019-2-1 Class 1.2<br>-40°C to 70°C / Max RH 95% for 96 hours per year |
| Public transport T°/Relative Humidity (RH) non-condensing | Tested according ETS300-019-2-2 Class 3.1<br>-40°C to 70°C / Max RH 95% for 96 hours per year |
| Material (casing) | Zinc coated steel |
| **Power** | |
| AC Input Data | |
| AC voltage: Nominal / range | 230 V (150 - 265 V) |
| Brownout | 450 W @ 150 Vac / 600 W @ >190 Vac linear decreasing |
| Power factor / THD | > 99% / < 3% |
| Frequency range (selectable) / synchronization range | 50 Hz (range 47 – 53 Hz) / 60 Hz (range 57 – 63 Hz) |
| DC Input Data | |
| DC voltage: Nominal / range | 48 VDC / (40-60V)* |
| Nominal current (at 48 Vdc and 600 W output) | 14 A |
| Maximum input current (at 48 Vdc for 15 second) / voltage ripple | 20.3 A / < 10 mV RMS |
| AC Output Data | |
| Efficiency: AC to AC (EPC) / DC to AC | >94% / >92% |
| Nominal voltage AC** Adjustable) | 230 V (200 - 240 VAC) |
| Frequency / frequency accuracy | 50 or 60 Hz / 0.03% |
| Nominal Output power | 750 VA / 600 W |
| Short time overload capacity | 150% (15 seconds) |
| Admissible load power factor | Full power rating from 0 inductive to 0 capacitive |
| Total harmonic distortion (resistive load) | < 3% |
| Load impact recovery time (10% - 90%) | ≤ 0.4 ms |
| Nominal current | 3.26 A @ 230 Vac |
| Crest factor at nominal power | 3 : 1 for load P.F. ≤ 0.7 |
| Short circuit clear up capacity 0 - 20 ms | 21.7 A for 20 ms |
| Short circuit current after 20 ms | 4.9 A (20 ms to 15 s) , 3.2 A (15 to 60 s), > 60 s - manual reset is required |
| AC output voltage stability | ±1% from 10% to 100% load |
| **In Transfer Performance** | |
| Max. voltage interruption / total transient voltage duration (max) | 0 s / 0 s |
| **Signaling & Supervision** | |
| Display | Synoptic LED |
| Supervision | Inview ranges: Inview Slot - T602004110, Inview GW DIN - T602004000, and<br>Inview GW Rack - T614730001 (Bravo 10 shelf) and T714730001 (Sierra 10 shelf) |
| Remote on / off | On rear terminal of the shelf |
| Alarms output | 2 dry contacts and 2 digital inputs |
| **Safety & EMC** | |
| Safety | IEC 62040-1 / EN62040-1 Edition 2017 |
| EMC | EN 61000-4-2 / EN 61000-4-3 / EN 61000-4-4 / EN 61000-4-5 / EN 61000-4-6 / EN 61000-4-8<br>ETSI EN 300386 v1.9.1 |

* Permanent 600 W / derating apply based on internal heatsink T°.

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