



The most versatile modular inverter is compatible with the Inview controller range.

 Telecom
  Datacom
  Mass transport
  Industry
  Power Utilities
  Renewable

AC In
230, 240 & 277
Vac

DC In
48 Vdc

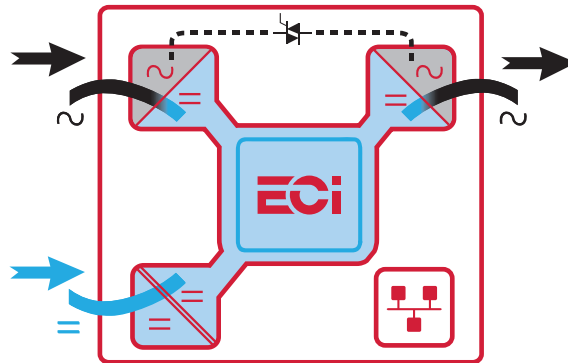
AC Out
230, 240 & 277
Vac

Power
3 kVA
2.4 kW


up to 1.35
MVA

Description

Bravo 25 - 48/230-277 is a compact and scalable **modular inverter** providing a pure sine wave at AC output. It provides an excellent **AC backup** solution in conjunction with a DC Power system. It uses cutting edge technology to provide the most **energy-efficient** in a **compact size**.



The ECI technology **eliminates all single points of failure** with full scalability; up to 32 modules in parallel and high efficiency of up to **96% in AC to AC conversion**, and above **93.7% in DC/AC conversion**, hence reducing operating costs. We can build the systems up to **1.35 MVA**.

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

- Extra AC input for increased efficiency on double conversion
- Wide AC input range up to 293 Vac L-N
- Up to 12 kVA in 2RU - 19 inches
- Up to 1.35 MVA by using extra synchronization device
- 1P or 3P infrastructure
- Compatible with Inview S, X and GW

Illustrations are non-binding and may include customized fittings.

Bravo 25 - 48/230-277

General

| | |
|---|--|
| Part Number: Module / Shelf | T621D30201 / T624730000 |
| Cooling / Audible noise | Fan forced cooling / <65db @1meter |
| MTBF | 240 000 hrs (MIL-217-F) at 30°C ambient and 80% load |
| Dielectric strength DC/AC | 4300 Vdc |
| RoHS / Material (casing) | Compliant / Aluzinc steel |
| Operating T° / Relative Humidity (RH) non-condensing | Tested according ETS300-019-2-3 Class 3.1 -20°C to 65°C, power de-rating from 40°C to 65°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 -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 -40°C to 70°C / Max RH 95% for 96 hours per year |
| 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 |
| Altitude above sea without de-rating of power | < 1500 m / derating > 1500 m – 0.8 % per 100 m / max 4000 m |

Power

AC Input Data

| | |
|-----------------------------------|--|
| Nominal voltage (current) | 230 Vac / 11.8 A, 240 Vac / 11.0 A and 277 Vac / 9.5 A |
| Voltage range | 150 - 293 Vac (derating from 195 to 150 Vac) |
| Brownout | 1600 W @150 Vac / 2400 W @195 Vac linear decreasing |
| Power factor / THD | > 0.99 / < 3% |
| Frequency (Synchronization range) | 50 Hz (47 - 53 Hz) or 60 Hz (57 - 63 Hz) |

DC Input Data

| | |
|---|---|
| Nominal voltage (range) | 48 Vdc (32 - 63 Vdc) ¹ , derating starts @44 Vdc |
| Nominal current | 54.4 A |
| Maximum input current (for 15 seconds) / voltage ripple | 66.8 A / < 10 mV RMS |
| Reverse polarity protection | Yes |

AC Output Data

| | |
|--|--|
| Efficiency AC to AC (EPC) / DC to AC | > 96% / > 93.7% |
| Nominal voltage ² / Current (User selectable) | 230 Vac / 13 A, 240 Vac / 12.5 A and 277 Vac / 10.8 A (200 - 277 Vac) |
| Frequency / frequency accuracy | 50 or 60 Hz / 0.03% |
| Nominal Output power | 3 kVA / 2.4 kW @ 230 Vac |
| Short time overload capacity | 125% (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 | 13 A @ 230 Vac |
| Crest factor at nominal power | 3 : 1 for load P.F. ≤ 0.7 |
| Short circuit clear up capacity < 20 ms at AC input / On battery | 104 Arms for 20 ms / 30.2 Arms for 20 ms |
| Short circuit current after > 20 ms | 18.6 Arms for 15 seconds |
| AC output voltage stability | ±1% from 10% to 100% load |
| Static / Dynamic voltage regulation | ±1% between 10% and 100% load / <5% from 0 to 100% to 0 load impact (100 ms) |

In Transfer Performance

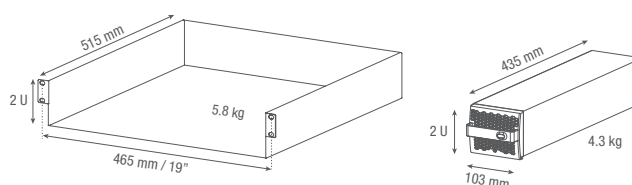
| | |
|--|---------------|
| Max. Voltage interruption / total transient voltage duration (max) | 0 sec / 0 sec |
|--|---------------|

Signaling & Supervision

| | |
|---------------------------|--|
| Display | Synoptic LEDs on module and touchscreen with Inview S and Inview X |
| Supervision / Part number | Inview ranges: Inview X - T602004200, Inview S - T602004100 and Inview GW - T602004000 |
| Remote ON / OFF | At rear terminal of the shelf |

Safety & EMC

| | |
|-------------|--|
| Safety | EN60950-EN62040-1-UL1778-IEC62109/1-IEC62109/2 |
| EMC | EN300386V1.6.1 / EN61000-1-2-3-4 |
| Environment | GR3108 class 2 for outdoor |



- 1 Permanent 2400 W / de-rating apply based on internal heatsink T°
- 2 Operation within lower voltage networks leads to de-rating of power performances

Bravo 25 - 48/230-277 - Datasheet - v1.7 Specifications can change without notice. New data will be updated on our website: www.cet-power.com.
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