





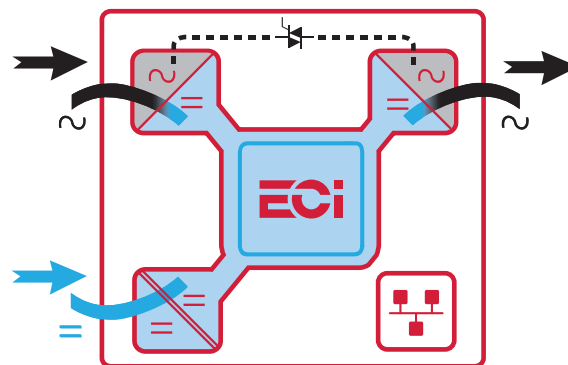
The most efficient modular inverter with an extra AC input to prevent unnecessary watt loss!

 Telecom
  Datacom
  Mass transport
  Industry
  Power Utilities
  Renewable



Description

BRAVO 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 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 **94.5% in DC/AC conversion**, hence 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

- High efficiency (DC to AC >94.5%)
- Compact design
- Dual input sources (AC & DC) with wide AC input range 150 Vac to 290 Vac
- Transfer time reduced to 0 ms
- Up to 12 kVA in 2 U

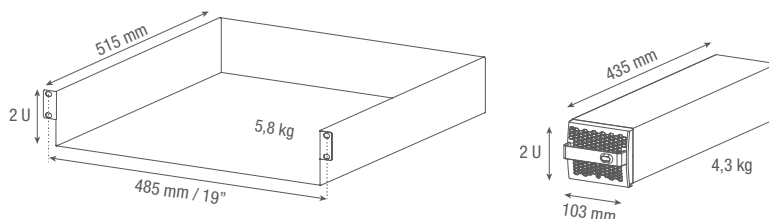
Illustrations are non-binding and may include customized fittings.

Bravo ECI 400 VDC / 230 VAC

General	
Part Number	T521D80201
Cooling / Audible noise	Fan forced cooling / <65db @1meter
MTBF	240 000 hrs (MIL-217IF)
Dielectric strength DC/AC	2100 Vdc
RoHS / Material (casing)	Compliant / Zinc coated 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
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 / 11.7 A
Voltage range (AC)	150 - 290 Vac (De-rating from 190 to 150 Vac)
Brownout	1630 W @ 150 Vac / 2500 W @ 190 Vac linear decreasing
Power factor @ Nominal Power	> 99%
Frequency range (selectable) / synchronization range	50 Hz (range 47 – 53 Hz) / 60 Hz (range 57 – 63 Hz)
DC Input Data	
Nominal voltage (range)	336 to 360 Vdc (200 - 430 Vdc)*
Nominal input current (at 336 Vdc nominal and 2500 W power)	7.9 A
Maximum input current (for 15 seconds) / voltage ripple	9.8 A / < 250 mV RMS
AC Output Data	
Efficiency AC to AC (EPC) / DC to AC	96% / >94.5%
Nominal voltage** (Adjustable)	230 Vac (220 - 240 Vac)
Frequency / frequency accuracy	50 or 60 Hz / 0.03%
Nominal Output power	3000 VA / 2500 W
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 at AC input / On battery	109 A / 34 Arms for 20 ms
Short circuit current after 20 ms	22.5 A for 15 seconds
Short circuit current after >20 ms -15 s	18 A RMS
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
In Transfer Performance	
Max. voltage interruption / total transient voltage duration (max)	0 s / 0 s
Signaling & Supervision	
Display	Synoptic LED
Supervision (part number)	T2S ETH - 2C (T322051000)
Alarms output / Supervision	Dry contacts on shelf / Use optional devices
Remote on / off	On rear terminal of the shelf via T2S ETH
Safety & EMC	
Safety	EN62040-1
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 ETSI EN 300386 v1.9.1

* Derating between 200 to 260 Vdc.

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



Bravo ECI 400 Vdc 230 Vac – Datasheet v1.1 Specifications can change without notice. New data will be updated on our website: www.cet-power.com.
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