

Modular Inverters Bravo ECI 48 Vdc 3kVA



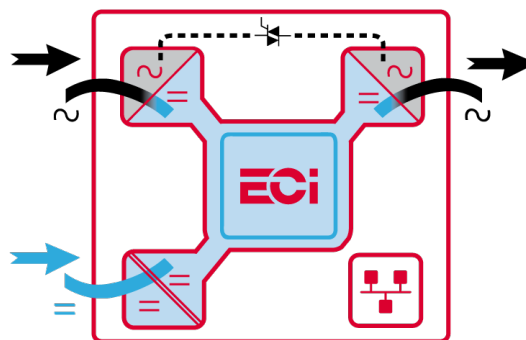
The most efficient modular inverter with an extra AC input to prevent unnecessary watt loss!

 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 **93.5% 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 >93.5%)
- Compact design
- Dual input sources (AC & DC) with wide AC input range 150 Vac to 265 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 48VDC / 230VAC

General	
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
Safety	EN62040-1
Cooling	Forced
MTBF	240 000 hrs (MIL-2171F)
Efficiency (Typical): Enhanced power conversion / on line	96% / >93.5%
Dielectric strength DC/AC	4300 Vdc
RoHS	Compliant
Environment	ETSI EN 300019 / ETSI EN 300132.2
Altitude above sea without de-rating of power	< 1500 m / derating > 1500 m – 0.8 % per 100 m / max 4000 m
Ambient temperature	-20 to 40° C derating from 40°C to 65°C
Storage temperature / relative humidity	-40 to 70°C / 95%, non-condensing
Material (casing)	Zinc coated steel
Power	
AC Output Power	
Nominal Output power (VA) / (W)	3000 VA / 2400 W
Short time overload capacity	125% (15 seconds)
Admissible load power factor	Full power rating from 0 inductive to 0 capacitive
DC Input Specifications	
DC voltage: Nominal / range	48 VDC / (40-60V)*
Nominal current (at 48 Vdc and 2400 W output)	53.2 A
Maximum input current (for 15 second) / voltage ripple	66.5 A / < 10 mV RMS
AC Input Specifications	
Nominal voltage (AC)	230 V
Voltage range (AC)	150 - 265 V
Brownout	1600 W @ 150 Vac / 2400 W @ 190 Vac linear decreasing
Power factor	> 99%
Frequency range (selectable) / synchronization range	50 Hz (range 47 – 53 Hz) / 60 Hz (range 57 – 63 Hz)
AC Output Specifications	
Nominal voltage (AC**)	Adjustable: 220 VAC - 240 VAC
Frequency / frequency accuracy	50 or 60 Hz / 0.03%
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 PF. <=0.7
Short circuit clear up capacity 0-20 ms	100 A for 20 ms - Available while Mains is available at AC input port / 34A RMS in DC/AC
Short circuit current after >20 ms -15 s	18 A RMS
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
Alarms output / Supervision	Dry contacts on shelf / Use optional devices
Remote on / off	On rear terminal of the shelf via T2S ETH

* Permanent 2400W / derating apply based on internal heatsink T°.

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

