

# Bravo 25 - 110/230-277

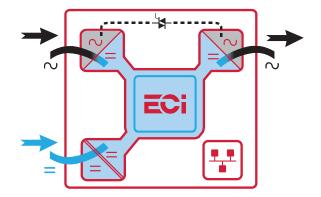


The most versatile modular inverter is compatible with the Inview controller range. The industrial version of this solution offers many new features within a unique module!



### Description

Bravo 25 - 110/230-277 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 2.7 MVA.

#### **Applications**

Designed for 110 Vdc infrastructures, this solution can be installed in industrial plants and marine environments for instance. 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 2.7 MVA by using extra syncrhonization device
- 1P or 3P infrastructure
- Compatible with Inview S, X and GW

Illustrations are non-binding and may include customized fittings.









## Bravo 25 - 110/230-277

General	
	TOURDEROOM / TOURDEROOM / TOURDEROOM
Part Number: Module / Shelf / Shelf without Isolation	T621D50201 / T624D50010 / T624D50000
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	2100 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 (De-rating from 195 to 150 Vac)
Brownout	1600 W @150 Vac / 2500 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)
	30 112 (47 - 33 112) 01 00 112 (37 - 03 112)
DC Input Data	440.7/1 /00 450.7/1 //
Nominal voltage (range)	110 Vdc (90 - 150 Vdc) <sup>1</sup>
Nominal current (at 110 Vdc and 2500 W output)	24.3 A
Maximum input current (for 15 seconds) / voltage ripple	30.3 A / < 10 mV RMS
Reverse polarity protection	Yes
AC Output Data	
Efficiency AC to AC (EPC) / DC to AC	> 96% / > 93.7%
Nominal voltage <sup>2</sup> / Current (User selectable)	230 Vac / 13.1 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 / 2.5 kW at 230 Vac
Short time overload capacity	125% (15 seconds)
Short time overload capacity Admissible load power factor	125% (15 seconds) Full power rating from 0 inductive to 0 capacitive
1 1	
Admissible load power factor	Full power rating from 0 inductive to 0 capacitive < 3% ≤ 0.4 ms
Admissible load power factor Total harmonic distortion (resistive load)	Full power rating from 0 inductive to 0 capacitive < 3%
Admissible load power factor  Total harmonic distortion (resistive load)  Load impact recovery time (10% - 90%)	Full power rating from 0 inductive to 0 capacitive < 3% ≤ 0.4 ms
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Permanent 2500 W / de-rating apply based on internal heatsink T° Operation within lower voltage networks leads to de-rating of power performances.

