EAGLE EYE
POWER SOLUTIONS

Bravo ECI 380

Telecom | Datacom | Mass Transit | Industrial | Power Utilities | Renewable

ECI Module

Product Features

- High efficiency (DC to AC >94.5%)
- Compact design
- Dual input sources (AC & DC) with wide AC input range 150VAC to 265VAC
- Transfer time reduced to 0 ms
- Up to 12kVA in 2U

Product Description

Bravo ECI 380 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.

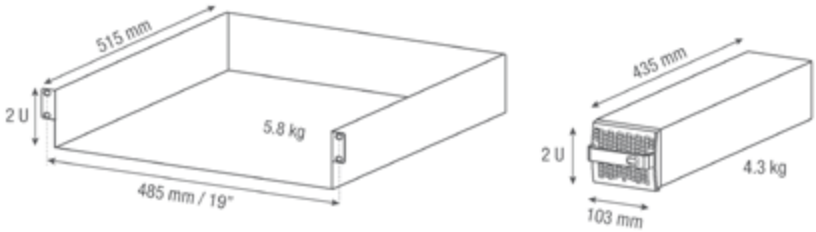
Applications

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.

General Specifications	
Ratings	AC In: 120, 230, & 277VAC | DC In: 380VDC AC Out: 120, 230, & 277VAC Power: 3kVA, 2.5kW, 3-450kVA
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-217IF)
Efficiency (Typical): Enhanced power conversion on line	96% / >93.5%
Dielectric strength DC/AC	4,300VDC
RoHS	Compliant
Environment	ETSI EN 300019 / ETSI EN 300132.2
Altitude above sea without de-rating of power	<1500m / derating >1500m – 0.8 % per 100m / max 4000m
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 Specifications	
AC Output Power	
Nominal Output power (VA) / (W)	3000VA / 2500W
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	336V / 200V - 400V*
Nominal current (at 336 Vdc and 2500 W output)	7.9A
Maximum input current (for 15 second) / voltage ripple	9.9A / < 250mV RMS
AC Input Specifications	
Nominal voltage (AC)	120 / 208 / 230 / 277 VAC line to neutral
Voltage range (AC)	108 - 290VAC permament (295VAC 60ms)
Brownout	1500VA / 1500W @120VAC, 2500VA / 2500W @190VAC, 3000VA / 2500W from 230 – 277VAC
Power factor	>99%
Frequency range (selectable) / synchronization range	50Hz (range 47 – 53Hz) / 60Hz (range 57 – 63Hz)
AC Output Specifications	
Nominal voltage (AC)**	120 / 208 / 230 / 277 VAC
Frequency / frequency accuracy	50 – 60 Hz / 0.03%
Total harmonic distortion (resistive load)	<3%
Load impact recovery time (10% - 90%)	<= 0.4ms
Nominal current	13A @ 230VAC
Crest factor at nominal power	3 : 1 for load P.F. <=0.7
Short circuit clear up capacity 0-20 ms	100A for 20ms - Available while mains is available at AC input port / 34A RMS in DC/AC
Short circuit current after >20 ms -15 s	18A RMS
AC output voltage stability	±1% from 10% to 100% load
In Transfer Performance	
Max. voltage interruption / total transient voltage duration (max)	0s / 0s
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

* Derating between 200 to 260 VDC.
** Operation within lower voltage networks leads to de-rating of power performances.



Ordering Information

Model No.	Description
Bravo ECI 380	380VDC Bravo ECI Inverter System