

Subrack System Bravo 10 - 48/230



All-in-one solution to efficiently secure critical AC applications.
From 1 to 5 kW in only 1U high!

 Telecom
  Datacom
  Mass transport
  Industry
  Power Utilities
  Renewable



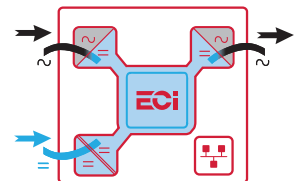
Introduction

This **Subrack System** is an all-in-one solution including the **Bravo 10 - 48/230** power converters, **Inview S Slot monitoring** and output distribution in only **1U high**. The solution is designed to evolve with your needs, securing loads from 1.25 to 5 kVA with the monitoring included.



Technology

The ECI technology offers both **AC** and **DC inputs** to provide a **secured AC power** while reaching a **96% conversion efficiency** (reducing the number of power conversion under normal condition)! The DC energy buffer integrated inside each module automatically **filters** every disturbances from the grid to supply the loads with a **pure power**.



Easy maintenance

Our power converters are hot-swappable to **ease the maintenance**. This **plug & play** solution does not require any training to replace a module in your system.

For which application?

An ideal solution for securing small critical AC loads, from 1.25 kVA to 5 kVA, using an existing DC infrastructure.

Some of the targeted applications are telecom antennas (4G and 5G), access control, traffic lights, security equipment, etc.

CE+T offers solutions securing loads up to 2.7 MVA and with different voltages (120 Vac, 380 Vdc, etc.). Do not hesitate to contact us for any other configuration.

Versions

The Subrack System is available in two versions:

- **All-in-one:** from 1 to 4 Bravo modules with Inview S Slot monitoring included.
- **All-in-one with sockets:** same as all-in-one but with 2 IEC sockets to easily plug your AC loads. Each IEC socket model 320 is protected with 10 amps fuse 5X20, 250VAC Fast Acting.



All-in-one



All-in-one with sockets

Key features:

- Compact design (1U high)
- All-in-one (monitoring included)
- Extra AC Input for increased conversion efficiency
- 1 to 4 modules (1.25 to 5 kVA)
- 0 ms transfer time

Illustrations are non-binding and may include customized fittings.

Subrack system - Bravo 10 - 48/230

General	1.25 kVA / 1 kW	2.5 kVA / 2 kW	3.75 kVA / 3 kW	5 kVA / 4 kW
Cooling / Audible noise	Self-adjustable speed / < 65 dBA at 1 meter			
MTBF	200 000 hrs (MIL-2171F)			
Dielectric strength DC/AC	4300 Vdc			
RoHS	Compliant			
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			
Material (casing)	Aluminium / Zinc coated steel			
Part number				
All-in-one	S61A73E0104SN000N001	S61A73E0204SN000N001	S61A73E0304SN000N001	S61A73E0404SN000N001
All-in-one with sockets	S61A73E0103SN0KKN001	S61A73E0203SN0KKN001	S61A73E0303SN0KKN001	NA
Power				
AC Input Data				
Nominal voltage	230 Vac			
Nominal current	4.6 A	9.2 A	13.8 A	18.4 A
Voltage range (AC)	150 - 265 Vac			
Brownout for per module	800 W @ 150 Vac / 1000 W @ 190 Vac linear decreasing			
Power factor / THD	> 99% / < 3%			
Frequency range (selectable) / synchronization range	50 Hz (range 47 – 53 Hz) / 60 Hz (range 57 – 63 Hz)			
DC Input Data				
DC voltage: Nominal / range	48 Vdc / (40-60V) ¹			
Nominal current (at 48 Vdc)	22.3 A	44.8	67.2	89.6
Maximum input current (for 15 second) / voltage ripple	34 A / < 10 mV RMS	68 A / < 10 mV RMS	101 A / < 10 mV RMS	135 A / < 10 mV RMS
AC Output Data				
Efficiency (Typical): Enhanced power conversion / on line	96% / >92.5%			
Nominal voltage AC ² (Adjustable)	230 V (200 - 240 Vac)			
Frequency / frequency accuracy	50 or 60 Hz / 0.03%			
Nominal Output power	1.25 kVA / 1 kW	2.5 kVA / 2 kW	3.75 kVA / 3 kW	5 kVA / 4 kW
Short time overload capacity	150% (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 @ 230 Vac	5.4 A	10.8	16.2	21.6
Crest factor at nominal power	3 : 1 for load P.F. ≤ 0.7			
Short circuit clear up capacity 0-20 ms	21.7 A	43.4 A	65.1 A	86.8 A
Short circuit current after >20 ms for one minute	8.1 A	16.2 A	24.3 A	32.4 A
AC output voltage stability	±1% from 10% to 100% load			
In Transfer Performance				
Max. Voltage interruption / total transient voltage duration (max)	0 sec / 0 sec			
Signaling & Supervision				
Supervision (Part number)	Inview S Slot (T602004110)			
Remote on / off	On rear terminal of the shelf			
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			

- 1 Permanent 1000 W / de-rating apply based on internal heatsink T°
2 Operation within lower voltage networks leads to de-rating of power performances.

Subrack system - Bravo 10 - 48/230 – Datasheet v1.2 Specifications can change without notice. New data will be updated on our website: www.cet-power.com.
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