

# 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.



All-in-one



All-in-one with sockets

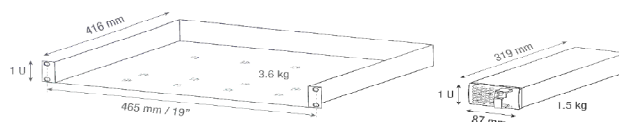
## Key features:

- 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			
<b>Part number</b>				
All-in-one	S61A73E0104SN000N001	S61A73E0204SN000N001	S61A73E0304SN000N001	S61A73E0404SN000N001
All-in-one with sockets	S61A73E0103SN0KKN001	S61A73E0203SN0KKN001	S61A73E0303SN0KKN001	NA
<b>Power</b>				
<b>AC Input Data</b>				
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)			
<b>DC Input Data</b>				
DC voltage: Nominal / range	48 Vdc / (40-60V) <sup>1</sup>			
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
<b>AC Output Data</b>				
Efficiency (Typical): Enhanced power conversion / on line	96% / >92.5%			
Nominal voltage AC <sup>2</sup> (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			
<b>In Transfer Performance</b>				
Max. Voltage interruption / total transient voltage duration (max)	0 sec / 0 sec			
<b>Signaling &amp; Supervision</b>				
Supervision (Part number)	Inview S Slot (T602004110)			
Remote on / off	On rear terminal of the shelf			
<b>Safety &amp; EMC</b>				
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 v1.1 Specifications can change without notice. New data will be updated on our website: [www.cet-power.com](http://www.cet-power.com).  
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