

Floor Cabinet With Inverters, 1000, 2500 5000 VA

BMK 930 002, BMK 930 004, BMK 930 005, BMK 930 25

Solutions for Business-
Critical Continuity

Features

- Sine wave output ensures compatibility with all loads
- Telecom DC voltages -48 V
- Telecom specific requirements
- System rating:
 - 5 k VA/cabinet with 1000 VA inverters
 - 12.5 k VA/cabinet with 2500 VA inverters
 - 25 k VA/cabinet with 5000 VA inverters

The inverters use switch mode technology and generate sine wave outputs for compability with all loads. They are exceptionally tolerant to load characteristics and operate in parallel to support large loads and/or when n+1 redundancy for the inverters is desired.

The system is provided with static by-pass and maintenance by-pass switches.

These inverter systems are suitable for centralised installations powering a server farm, workstations, network switching routers or similar applications.

The inverters come packaged in compact steel cabinets. Each floor cabinet can be equipped with up to five inverters.

Architecture

Parallel operation

In the parallel operation mode the inverters are synchronised at the output.

Inverter Modules can be paralleled up to five units. For electrical safety and maintenance reason the cabinet is provided with a static by-pass switch and a manual by-pass switch.



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Technical Specifications

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Electrical

Input data

Nominal Voltage	48 V DC
Operating range	40 to 60 V DC
Low Voltage protection	Automatic shutdown to protect batteries

Output data

Rating Inverter	1000, 2500 or 5000 VA
Max. number of inverters/cabinet	5 x 1000 VA parallel operation 5 x 2500 VA parallel operation 5 x 5000 VA parallel operation
Output Voltage	230 or 115 V AC (not 25 kVA)
Line regulation	± 5%
Load regulation	10% for 0 to 100 % load change
Frequency	50/60 Hz, user selectable
Frequency variation	0.1%
THD	3% maximum into linear load
Crest factor load	1 to 2.8
AC protection	Output current limitation, down to short circuit
Short-circuit proof	Yes, switches off after 40 sec.
Efficiency	85%

Environmental

Thermal protection	Yes
Cooling	Temperature controlled fan
Ambient Temperature	+5 °C to +40 °C
Storage Temperature	IEC 721-3-3 (3K3)
Maximum altitude	1000 m above sea level
Safety standards	CE certified 230 V, EN 609 50 UL 115 V AC cabinet version, 5000 VA
EMC standards	EN 550 22 B
Protection Class	IP 20
Psophometric noise	<2 mV

Mechanical

Dimensions, cabinet	600 x 600 x 1800 (W x D x H mm)
Dimensions, inverter	483 x 256 x 134 (1000 VA, 230 V) 483 x 308 x 134 (1000 VA, 115 V) 483 x 390 x 177 (2500 VA, 230 V) 483 x 450 x 177 (5000 VA, 230 V)
Weight, single inverters	10.5 kg(1000 VA, 230 V) 11.5 kg(1000 VA, 115 V) 18.5 kg(2500 VA, 230 V) 28 kg(5000 VA, 230 V)
Input terminals	Screw terminals on top of cabinet
Output terminals	Screw terminals on top of cabinet
Packaging	Floor cabinet

General

Displays	Output power bar graph 0 to 100 %, output voltage and output current
Alarms, inverter	Front panel LEDs and pictogram - Output Voltage present - Fault - Overload
Potential-free contact	Yes
Color	RAL 7035 for front panel

Product configuration

BMK 930 002/1-5 CE certified	Equipped cabinet with 1000 to 5000 VA 48 V input. 230 V AC 50/60 Hz output
BMK 930 005/1-5 UL certified	Equipped cabinet with 1000 to 5000 VA 48 V input. 115 V AC 60 Hz output
BMK 930 004/1 CE certified	Cabinet with 2500 to 12500 VA 48 V input. 230 V AC 50 Hz output
BMS 404 003/2 CE certified	Inverter 2500VA 48 V input. 230 V AC 50 Hz output
BMK 930 004/16 CE certified	Cabinet with 250 to 12500 VA 48 V input. 230 V AC 60 Hz output
BMS 404 003/22 CE certified	Inverter 2500 VA 48 V input. 230 V AC 60 Hz output
BMK 930 004/21-25 CE certified	Equipped cabinet with 2500 to 12500 VA 48 V input. 230/115 V AC 60 Hz output
BMK 930 25/1-5 CE certified	Equipped cabinet with 5000 to 25000 VA 48 V input. 230 V AC 50/60 Hz output

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