

# Power systems for -48V

**// You never have to invest in more equipment than you need to meet current power requirements //**

## Benefits

- High power density enables space efficient solutions
- Pre-assembled and pre-tested subracks facilitate fast installation and quick commissioning
- Enhanced surge immunity provides high availability to your system
- High efficiency rectifiers decrease cooling demands (natural convection cooled in stand-alone configurations)
- Modular system architecture facilitate optimal investments

The BZA 108 family is a range of -48 V power systems for smaller telecom, datacom or other demanding applications with high availability requirements. The systems provide highly reliable, un-interruptable and cost-effective power solutions. They are modular, flexible and designed to grow gradually with your needs. You don't have to invest in more equipment than you need at the time.

## Product contents

- Switch mode rectifiers 300 or 680W
- Distribution units with 3-100 A circuit breakers
- Battery circuit breakers
- Central supervision unit or alarm unit
- Battery shelves
- Sub racks and cabinets

## Application references

- Mobile switching centers
- Public switches
- Remote subscriber switches
- Access nodes
- Wide area paging systems
- Transmission systems
- Radio base stations
- Cable TV



BZA 108 08



Alternative configuration of BZA 108 08



BZA 108 02



BZA 108 09



BZA 108 18



Sub-rack for BZA 108 18

“ ... reliable, uninterruptible and cost-effective power for mini applications and small installations ... ”

System product	BZA 108 18	BZA 108 09	BZA 108 02	BZA 108 08
Optimum power range	up to 0.6 kW	0.4-1.3 kW	1.0-3.4 kW	1.3-7.5 kW
Maximum power capacity	1.8 kW	4.0 kW	8.1 kW	16.3 kW
Output power/rectifier	300 W	680 W	680 W	680 W
Number of rectifiers	(1-6 pcs)	(1-6 pcs)	(1-12 pcs)	(3-24 pcs)
Distribution points/system	1-16	1-18	1-52	1-252
Dimension cabinet H x W x D (mm)	19" and ETSI	19" and ETSI	2,100 x 600 x 400	1,800 x 600 x 400
Dimension subrack H x W x D (mm)	150 x 480 x 175	299 x 485 x 230	Not applicable	299 x 485 x 230

# Power systems for -48V

“... we can offer cost-effective solutions tailored to your specific needs”

## Benefits

- Modular system architecture facilitates optimal investments
- Low installation and commissioning cost with preassembled and pretested units
- Compact modular design simplifies site layouts and reduces design cost
- Minimized downtime, since service and repairs can be performed while the system is in service
- In the event of a single unit failure, functional isolation also preserves system integrity

The product family of -48V DC power systems is very flexible for creating solutions to meet your DC power requirements. With our wide range of compatible and standard units, we can offer cost-effective solutions tailored to your specific needs. By combining modular units providing the best solution for a particular application, and then packaging and delivering them as pretested cabinet units, we can equip you with an optimal hardware package requiring a minimum of installation and testing time when setting up the system. You will not need a separate room for your DC power – all of our system solutions are designed to be installed with communications equipment.

## Applications

- Major communication centers
- Gateway switching centers
- Central office switching centers
- Local switching centers
- Large remote subscriber switch (RSS) applications
- Radio base stations (RBS) and controllers

## Features

- Expand-as-you-grow philosophy
- Advanced control and supervision system
- PowerSplit-function for easy extension of existing sites
- Field replaceable units
- Small system footprint
- High reliability
- High power density
- High surge immunity
- High-efficiency rectifiers
- CE-marked and UL-listed systems available



## Modular Units

### *Control and supervision*

All functional units within the DC system have the facility to link into a control and supervision unit with a display.

The control and supervision unit can be equipped with a number of different software functions for control, operation and maintenance of the power system.

Communication within the system is by optical fiber, which is ideal for disturbance-free and reliable signaling.

BZA 131 50

### Rectifier units

We offer a variety of rectifiers ranging from 1,600 W to 8,100 W, enabling the choice of an optimal power solution for your application. The rectifier units are designed as field replaceable units that can be easily added or exchanged, even in a live system.

### Distribution units

The product family includes a wide range of different distribution units for all kinds of applications. Circuit breakers and fuses are available in ratings ranging from 3 to 800 A. The system also includes units with a priority load disconnection in two or several steps, enabling extended backup time for prioritized loads.

### Battery connection units

We offer a wide range of battery connection units to match the size of different power systems. Circuit breakers and fuses are available in ratings ranging from 190 to 800 A. All units are connected to the supervision system monitoring current and collecting fuse alarms. We also offer the option to provide automatic or remote disconnect/reconnect function.

### AC interface and connection units

Cabling and installation costs are reduced by providing an AC connection unit in the DC power cabinets. We offer the option to provide these AC connection units with AC supervision functionality.

### Cabinet building practice

DC power cabinets are available to accommodate both low and high building practice (1,800, 2,120 or 2,200 mm).

All cabinets provide the option of overhead, underfloor or bottom cabling. The modular building structure makes it possible to mix and match the units to suit your needs.

With true front access, the cabinets can be installed back-to-wall, side-by-side and back-to-back, avoiding large service areas and helping you to minimize the amount of required floor space.



BZA 130 08

“ The flexible power system for creating solutions to meet your DC power requirements ”

System product	BZA 130 05	BZA 130 08	BZA 131 50	BZA 131 70
Output power/rectifier	1,600 W	7,200/8,100 W	1,600 W	6,000 W
Number of rectifiers	0-9	0-5	0-9	0-6
Dimension H x W x D (mm)				
high cabinet	2,120 x 720 x 400	2,120 x 720 x 400	2,200 x 600 x 400	2,200 x 600 x 400 (600)
low cabinet	1,800 x 720 x 400	1,800 x 720 x 400	1,800 x 600 x 400	1,800 x 600 x 400