



**Why choose us**

80 years experience in power systems

● Highly skilled custom engineering

● Multidisciplinary R&D and Italian manufacturing

● 1000-plus worldwide installations for critical applications

Mobile web access, financial transactions, digital entertainment, online B2C and B2B are just a few applications that have been massively increasing internet usage and therefore data processing and storage need. To fulfill that need IT services have experienced frenetic growth, with a proliferation of data centre facilities.

Despite the world economic crisis, the ICT industry still enjoys a 2-figure growth rate, but the challenge in building and running a DC has now moved from an "it must work!" basis to a "how do I resiliently, efficiently and effectively get the most uptime out of it?"

Therefore, while the IT industry still demands maximum availability, as a data centre downtime of seconds often results in data loss, with severe economic consequences, IT services companies increasingly struggle to reduce their energy requirements, due to rising environmental and economic constraints.

Making the most of floor space still remains one of the drivers in data centre design, whilst being flexible, to quickly adjust facility layout in such a fast-changing market.



**How we can help you**

Whether you are a private company needing to protect your own data, reliably and cost-effectively, starting up as a service provider, needing to invest in a resizable system or a large server farm, needing to shrink your energy demand we can help you meet your target.



**If you need**

- High site availability grade
- Maximum energy saving to reduce energy bills and carbon footprint
- Floor space optimization
- Full power needs coverage
- Flexibility and site scalability
- Minimum cost of ownership

**We can offer you**

- Robust, long life, Italian designed and manufactured products. Strict factory tests and burn-in. High quality components procurement plan. Commissioning on-site tests.
- TÜV certified, very high efficiency Double Conversion and Ultra High Efficiency (UHE) operation mode. Patented "Green Conversion" power management and control techniques.
- A full range of both monolithic and modular continuity systems, from 10 kVA to 12.8 MW.
- Highly scalable small size products, for tailored and resizable system arrangement.
- Low and easy maintenance design. Predictive maintenance program, to effectively monitor and maintain your power system's perfect health.

**Areas**

**Data Centers for:**

- Banking
- Finance
- Healthcare
- Energy
- Government
- Telecommunication
- Transport

**Internet Service Providers**

**Server Farms**

**Applications**

- Cloud
- Data servers
- Networking services
- Emergency safety and security:
  - Fire fighting
  - Emergency lighting
  - Monitoring systems
- Data monitoring and transmission
- Continuous cooling





**How we can assist you**

**Custom Design**

Our R&D team can analyze and develop solutions to a wide spectrum of edge system requirements

**Technical consulting**

- Comprehensive system analysis
- Specification guidelines.

**Pre-sale support**

- Equipment selection and sizing
- Product customization to specific requirements
- Preliminary system integration assessment technical description of the proposed systems battery sizing calculations
- General arrangement drawings, single line diagram, filled-in data sheets.

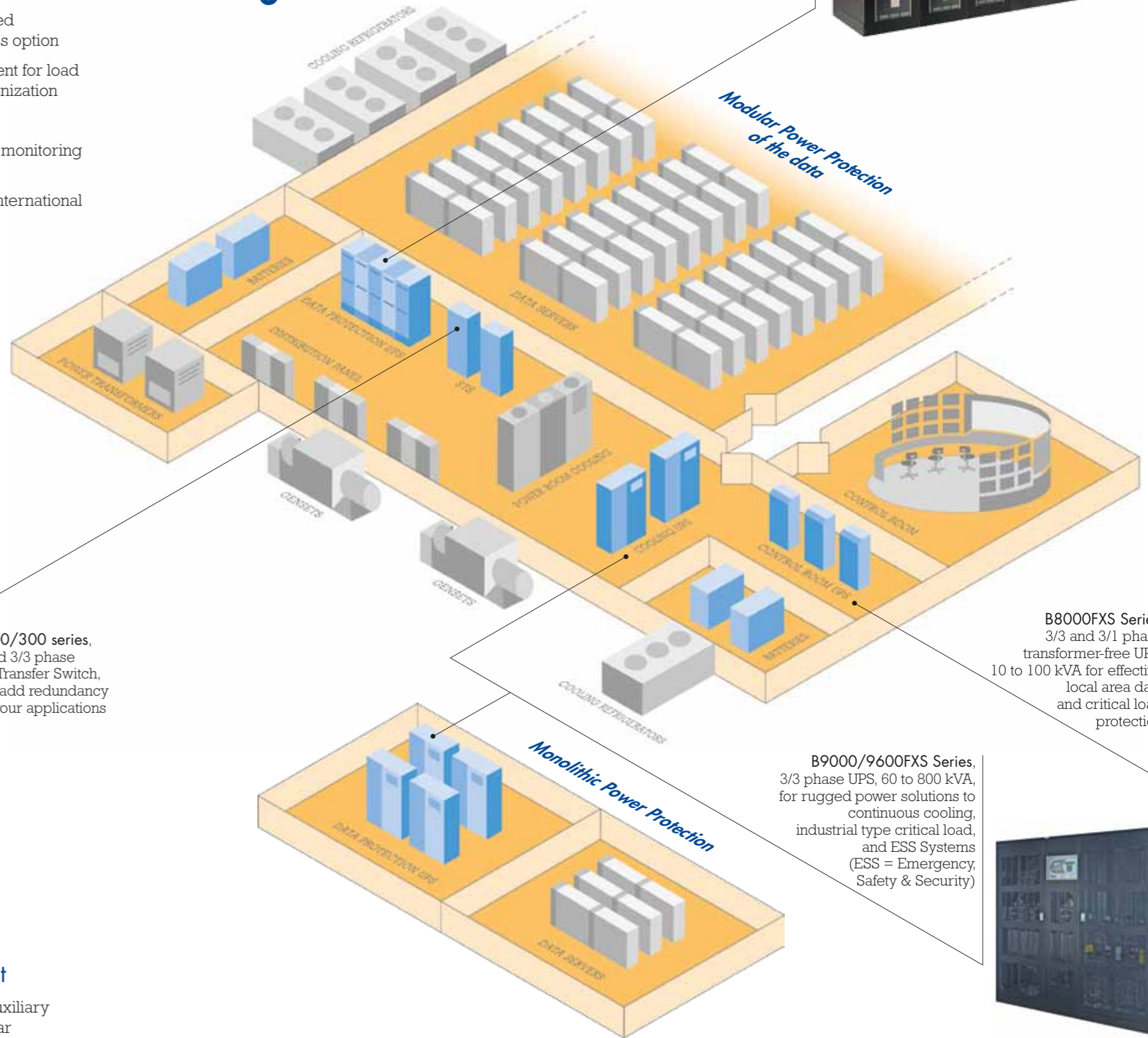
**Post-sale support**

- Supervision of system commissioning and start-up
- Spare parts list for commissioning and 2 years operation
- Predictive maintenance programs
- Maintenance personnel training plans
- Teleservice.

**Benefits**

- Inverter transformer and transformer-free based architected series
- Low cost of ownership
- High efficiency
- Distributed and centralized maintenance/static bypass option
- Smart parallel management for load sharing and load synchronization
- Reduced footprint
- Comprehensive range of monitoring options
- Full compliance with all international product standards.

**Our solutions**



**UPSaver® Series,**  
3/3 phase modular UPS,  
100 to 12.8 MW,  
the most versatile and  
cost-effective  
way to build up and  
power your ICT business



**STS100/300 series,**  
1/1 and 3/3 phase  
Static Transfer Switch,  
safely add redundancy  
to all your applications

**B8000FXS Series,**  
3/3 and 3/1 phase  
transformer-free UPS,  
10 to 100 kVA for effective  
local area data  
and critical load  
protection

**B9000/9600FXS Series,**  
3/3 phase UPS, 60 to 800 kVA,  
for rugged power solutions to  
continuous cooling,  
industrial type critical load,  
and ESS Systems  
(ESS = Emergency,  
Safety & Security)



**Project management**

- Engineering of custom auxiliary equipment and switchgear
- Preliminary drawings (layout and dimensions)
- Manufacturing drawings
- Factory Acceptance Tests (FAT) on request.

Borri is always the best choice for superior efficiency, reliability and savings with the distributed or centralised bypass option, available on modular and monolithic solutions.





CE, Gost, IQNet / CSQ for ISO 9001 (Quality Assurance), ISO14001 (Environmental), BS OHSAS 18001 (Health & Safety), TÜV.

**Main applicable standards**

- ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007
- IEC EN 62040-1, IEC EN 62040-2 (UPS safety and EMC, CE marking, recently harmonized with UL1778)
- IEC EN 62040-3 (UPS test & performance)
- IEC 60146 (semiconductor converters)
- IEC 60439 (low voltage switchboards)
- IEC 60076 (power transformers)
- IEC 60529 (protection degree)

**A list featuring some of our most recent installations**

- Oxford University (education), UK
- Blue Chip (hosting), UK
- Diesel (fashion industry), Italy
- Eni (energy), Italy
- SIA (finance), Italy
- Everest Data Centres (colocation), UK
- Gibtelecom (ISP and telco), UK
- US Army Corps of Engineers (defense), Kuwait

**Who we are**

Borri is a company specialized in custom design, manufacturing and servicing of power electronics equipment for ICT, industrial, oil & gas and energy applications. Borri's R&D department is one of the most complete regarding the different disciplines in the field of power conversion. Long experience in semiconductors and magnetic component design is combined with the most advanced digital regulation algorithms and microcontroller programming know-how. Borri has a leading position in the oil and gas market thanks to its proven customizing expertise and continuous pursuit of excellence in a state-of-the-art product. However, wide experience in several branches of power electronics such as UPS systems for data centers and inverters for renewable energy and storage, make Borri a leader in this technology not only for oil and gas applications. The latest patented three-phase solution based on its Green Conversion operation can guarantee the best PUE for green data centers: proof of the ongoing company commitment to innovation. Based in Italy with 12,000 m<sup>2</sup> production space and a large full-testing area, the company can call on more than 80 years of experience. Borri has a strong global presence and is represented in all 5 continents where it can provide on-site service and technical support.

