

INGENIO

60 to 160 kVA

PLUS UPS



Low Total Cost of Ownership, efficient and compact solution for supplying reliable uninterrupted quality power to all critical applications in networking and small to medium data center, health, finance, industrial processing, building and transportation and for TLC. Featuring our patented Green Conversion technology INGENIO PLUS provides high efficiency and 100% battery life expectancy, ensuring low Capex and Opex.



INGENIO PLUS UPS

Applications

- Networking and telecommunication
- Data server
- Process automation
- Medical equipment
- Emergency and safety systems
- Continuous cooling

Features and benefits

- Continuous savings with our patented Green Conversion technology, providing high efficiency and life extension on UPS critical components'.
- Reduced floor space: lower environmental footprint with transformer free design and common battery management.
- Clean mains and full compatibility with Genset operation due to low input current distortion and soft start.
- No extra costs for oversizing electrical infrastructure and power factor correction thanks to 0.99 input PF
- High flexibility for all types of loads with full output power rating and different operating modes.
- Optional clear and easy-to-use multi-language touch screen display.



Optional touch screen display

Green Conversion

Green Conversion technology is based on our patented control algorithm, managing the battery-inverter subsystem to enhance system efficiency and to extend battery life.

Borri's Green Conversion inverter design increases efficiency up to 96% from 25% system load, whilst reducing switching stress on all power components.

Benefits are up to 33% energy savings with respect to an older generation UPS.

The Green Conversion battery charger completely filters voltage ripple and floating voltage micro currents to the battery, which are the main causes of early battery ageing, extending the battery service life by up to 40%.



Compact solutions for up to 15' of autonomy at 80 kVA

Available with 10 years' battery life expectancy

High efficiency operations

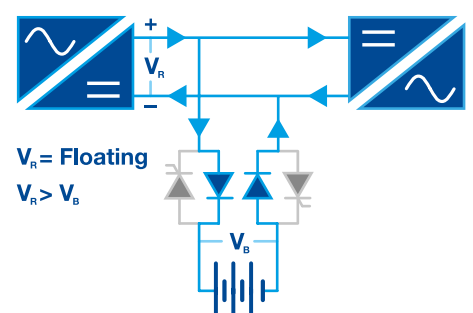
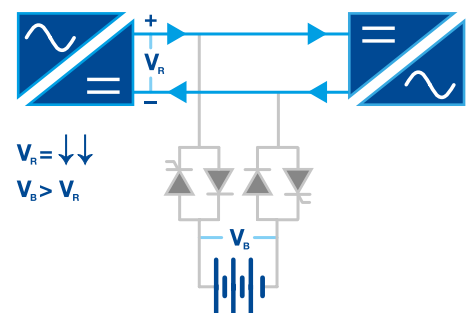
The UPS is capable of different modes of operation for any application according to mains quality and load immunity so as to always deliver the best reliable quality power at the highest efficiency:

- on-line double conversion: VFI (Voltage Frequency Independent) double conversion total protection with up to 96% efficiency thanks to Green Conversion patented technology.
- ECO mode: suitable for stable mains, in VFD (Voltage Frequency Dependent) mode of operation, achieving more than 98% efficiency.
- Ultra High Efficiency: the most innovative power protection technology for high immunity grade applications, up to 99% efficiency, with the lowest Total Cost of Ownership.

Battery life care

Preserving battery's health is a key to capital expenditure protection and full availability of mission critical applications. INGENIO PLUS comes with advanced battery managing features, allowing for the best battery performance and extended battery life:

- Green Conversion Battery Care with adjustable cyclic charge (14-2 typical), providing 100% battery life and maximum energy savings.
- Dynamic Charging Mode: automatic adjusting of battery charging current, with priority to output loads, ensuring short charging times for long autonomy applications.
- Battery charging voltage temperature compensation to prevent excess battery charging and overheating.
- Automatic and manual battery test to detect battery performance deterioration.
- Common battery, the best option to reduce pricing and footprint.



Technical data sheet available at www.borri.it or in the general catalogue.

Borri products include
single phase units from 450 VA to 20 kVA
three phase systems from 10 kVA to 12,8 MW

For more information please visit www.borri.it

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Who we are

Borri Group is a global provider of power electronics systems and solutions for harsh industrial and demanding commercial and ICT secure power requirements merging eighty years of experience in developing, manufacturing and supplying uninterruptable power systems and solutions.

The Research and Development Team's expertise combines AC and DC power technologies and spanning the worlds of both conventional and renewable energy, to provide innovative solutions for tomorrow's problems.

The company is comprised of three business units: Industrial Power, Critical Power and Renewable Power, headquartered in Bibbiena, Italy. Borri's latest products, based on Green Conversion operation, guarantee the best PUE for green data centers: proof of the ongoing company commitment to innovation.

Under the Astrid brand Borri offers systems for green renewable energy: a confirmation of Borri's commitment to sustainability.

Thanks to its highly skilled custom engineers Borri controls in-house the entire process: from feed studies to design, production and after-sales service guaranteeing state-of-the-art solutions.

Based in Italy with over 15,000 m² production area and a large high power test field, Borri can depend on its more than 80 years of experience and multidisciplinary research and development to serve our customers best.