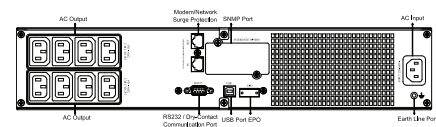


BORRI | B300 ROTATION

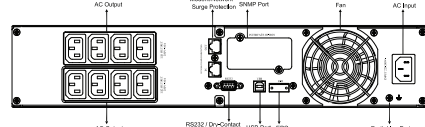
Technical Specification



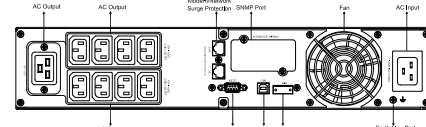
MODELS	B3X1000i	B3X1500i	B3X2000i	B3X3000i
INPUT				
Cold Start	Yes, default frequency=50Hz			
Input Voltage Window	176VAC-288VAC			
Phase	Single phase			
Transfer Voltage Range - Normal	220/230/240VAC			
Input Frequency Range - Normal	45-55Hz / 55-65Hz (±0.1 Hz)			
OUTPUT				
Power				
Power(kVA)	1.0	1.5	2.0	3.0
Power(kW)	0.9	1.4	1.8	2.7
Power Factor	0.9	0.9	0.9	0.9
Output Voltage				
Waveform	Pure Sine Wave			
Nominal voltage	220VAC/230VAC/240VAC			
Voltage regulation (Battery Mode)	± 5 %			
Voltage distortion (Typical)	< 10% THD, linear load < 12% THD, non-linear load			
Output Frequency				
Synchronization range	45-55Hz / 55-65Hz			
Battery mode	50/60±0.1 Hz			
Transfer Time				
Line mode to battery mode (Normal mode)	2 ~ 6 mS			
Line mode to battery mode (Generator mode)	13 mS (max)			
Full Load Efficiency				
Normal Line mode with battery full charged	>97%			
Buck mode with battery fully charged	>95%			
Boost mode with battery fully charged	>92%			
Battery mode @ 12VDC/Battery	>82%			
Overload Capability (Line Mode)				
	110% +/-10% : 3 min 150% +/-10% : 0.2 s			
Overload Capability (Battery Mode)				
	≥110% ±10% : 30 s ≥120% ±10% : 0.1 s			
Crest Ratio	3:1			
Parallel	1+1 for capacity and redundancy			
BATTERY				
Rating/Type	12VDC/7Ah	12VDC/9Ah	12VDC/7Ah	12VDC/9Ah
Quantity	3	3	6	6
DC Voltage	36VDC	36VDC	72VDC	72VDC
Back-up Time (full load)	4.5 minutes	3 minutes	4.5 minutes	3 minutes
Back-up Time (half load)	10 minutes	7 minutes	10 minutes	7 minutes
Charger				
-Charging current (max)	1.5A			
-Charging time	3h charge to 90%			
FEATURES				
EPO Function	YES			
Load Segments Control	YES			
Swappable LCD Direction	YES			
Rack-Tower 2-in-1 Design	YES			
Extended Run Time	YES			
Easy Battery Replacement	YES			
RS232	Standard, supports WinPower Software			
USB	Standard, supports WinPower Software			
Intelligent Slot	NMC / AS400 Card			
Network Transient Protection	RJ45			
MECHANICAL				
WxDxH (mm)-UPS	438x430x86.5	438x430x86.5	438x600x86.5	438x600x86.5
Net Weight-UPS	16/22.1kg	16/22.1kg	29.5/41.1kg	29.5/41.1kg
Operating Altitude	0-1500 meters, @ 0~40 °C / 1501-3000 meters, @ 0~35 °C			
Operating Temperature Range	UPS: 0°C ~ 40 °C - BATTERIES: 20°C ~ 25 °C			
Relative Humidity	0 ~ 95% (Non condensing)			
Audible Noise (Line mode)	<40dB @ 1meter			
AC Outlets	IEC C13 x8	IEC C13 x8	IEC C13 x8	IEC C13 x8 + IEC C19 x1
REGULATIONS				
Conduction Emission	IEC 62040-2			
CS	IEC61000-4-6			
Radiation Emission	IEC 62040-2			
RS	IEC 61000-4-3			
ESD	IEC 61000-4-2			
EFT	IEC 61000-4-4			
Surge	IEC 61000-4-5			
Safety	EN 62040-1-1			



Rear view of B3X1000i/1500i



Rear view of B3X2000i



Rear view of B3X3000i



BORRI | B300 ROTATION
 1000VA, 1500VA, 2000VA & 3000VA
 LINE INTERACTIVE

BORRI Ltd | Systems House | Rothside Road | Eckington | Sheffield | S21 4HL
 Tel: +44 (0)1246 431431 | Fax: +44 (0)1246 431444
 Email: sales@borri.co.uk | Web: www.borri.co.uk



BORRI | B300 ROTATION

Borri Ltd's B300 Rotation has been designed using the most technically advanced UPS components available and therefore exceeds the performance of many other comparable systems. Despite its superior design the B300 Rotation single phase range is still one of the most affordable of its kind.

Operational Efficiency

Borri's B300 Rotation is a compact, line interactive, pure sine wave UPS. It delivers 28% more useable power than other UPS systems in its class thanks to the up-rated 0.9 output power factor. The series also provides an overall AC efficiency of 97% whilst operating in its most resilient mode of protection.

Giving full protection against power sags, surges, spikes, brownouts, line noise and complete black outs, the B300 Rotation has an important role to play in an organisations business continuity plan.

When in rack-mount form all of the range take only 2U of rack space whilst including batteries for standard runtime, this is while maintaining a depth of only 430mm up to 1500VA/ 1350W and 600mm for the 2000VA/1800W the 3000VA/2700W.

Flexibility

Affordable, reliable and flexible, the B300 Rotation encompasses all the key features of a smart, line interactive, single phase UPS solution. Its rack mountable and floor standing tower ergonomics give the B300 Rotation maximum installation flexibility.

Offering USB, Serial, EPO and RJ11/RJ45 ports as standard and with a smart slot for optional Network Management Cards (SNMP), ModBus 485 cards and Programmable Relay cards the user has many choices in how to manage communication with the UPS and how to configure the unit to give alerts as required.



Expandable Runtime
Expandable runtime with matching battery modules allow the user to increase the amount of time the UPS will run the connected critical loads during a mains failure. They can be purchased and easily connected afterwards.

Hot-swap Batteries
The internal batteries of the UPS can be "Hot Swapped" safely by the user without the need for a power down. The batteries are located in a separate internal enclosure ensuring the users safety while performing this task.



B300 Rotation Applications:

- > IT facilities
- > Telephone systems
- > NAS
- > SANs
- > Servers
- > Networking
- > Security



Dot Matrix LCD Display
All parameters can easily be read from a single block LCD screen. In the event of the UPS being overloaded, overheated or any other fault occurring, which would leave the critical load without protection, the whole display turns red immediately, alerting the user to rectify the problem immediately.

Functionality

The inclusion of an AVR (Automatic Voltage Regulator) enables Borri's B300 Rotation series to regulate the precise output voltage without switching to battery power under varying input mains voltages. Thus delivering a wide input voltage feature that extends battery life.

The B300 Rotation incorporates a clear block LCD display with all parameters clearly visible from a single screen. Also included is the monitoring and shutdown software, which can be installed on all connected load devices and as such maximises battery runtime as different devices can be shutdown at varying battery capacity levels.

The front panel of a B300 Rotation includes a LCD display with four control buttons that allow the user to monitor, configure and control the unit.

The two banks of 4 IEC 320 C13 outlets can be controlled separately, which also enables prioritised shutdowns of certain equipment under battery powered conditions..

The B300 Rotation provides remote monitoring options using flexible and interactive software, which does not require any supplementary licences and is compatible with a multitude of operating systems including Windows, Linux, IBM and HP and as well as virtualised platforms such as VMware ESX 3.5, 4.0, 4.1 and VMware ESXi 4.0, 4.1, 5.0, 5.1.

Rackmount Kit

To use the B300 Rotation in rackmount form the B3XRK KIT is available to mount the UPS in a variety of 19 inch server cabinets. One kit will be required for the UPS and each additional battery module.

Network Management Card

The Borri NMC option enables the UPS to be monitored and controlled over the LAN, the UPS has its own dedicated IP address, which can then send traps or email warnings over the network to other devices.



B300R Main Features

- Line interactive (VI) technology
- High efficiency up to 97%
- Rack/tower compact convertible design
- 0.9 output power factor
- Clear block LCD display
- Serial, USB, NMC, ModBus and Relay connectivity
- Network management for alerts and scheduled shutdown, compatible with all major OS including virtualisation software.
- Expandable runtime with additional battery modules
- Automatic voltage regulator (AVR)
- User-replaceable hot swappable batteries
- Intelligent monitoring software compatible with virtualised environments such as HyperV and VMware
- Pluggable IEC outputs