BORRI B300

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	1kVA	2kVA	3kVA	6kVA	10kVA
Toplology	True On - Line, Double Conversion				
On- battery Output Waveform	Pure Sine Wave				
Number of Phase	Single (1 º 2W + G)				
INPUT					
Maximum Capacity	1000 VA /	2000 VA /	3000 VA /	6000 VA /	10000 VA /
(VA / W)	700 W	1400 W	2100 W	4200 W	7000 W
Nominal Input Window	230 VAC				
Input Voltage Regulation	160~300 VAC Single Phase w/ Ground			170~285 VAC Single Phase w/ Ground	
Nominal Input Frequency	50/60 ± 4 Hz				
Input PFC	≥0.95			≥0.98	
Input Short Protection	Circuit Breaker				
OUTPUT					
Nominal Output Voltage	220 / 230 / 240 VAC nominal				
Output Voltage Regulation	+ / - 2 %			+ / - 1 %	
Output T.H.D	3% (Linear Load)	4% THD (Linear Load)		2% THD (Linear Load)	
	6% (Non-Linear Load)	7% THD (Non-Linear Load)		6% THD (Non-Linear Load)	
High Efficiency Mode (AC to AC)	85%	85%	88%	> 88 %	
High Efficiency Mode (DC to AC)	95%	95%	95%	95 %	
Crest Factor	3:1				
Start on Battery	Yes				
Output Frequency	50 Hz + / - 0.2 Hz			50 Hz + / - 0.5 Hz	
BATTERY					
Typical Backup Time (at full load)	5 minutes	9 minutes	5 minutes	8 minutes	5 minutes
Battery Type	Sealed Lead-Acid maintenance-free 12VDC/7Ah per cell				12VDC / 9Ah per cell
Numbers of Batteries	3 cells	8 cells		20 cells	
Recharge Time to 90%	5 hours			7 hours	8 hours
ADVANCE WARNING DIAGNOSTICS					
Front Panel Indication - LCD	UPS Status, I/P Voltage & Frequency, O/P Voltage & Frequency, Battery Voltage, Battery Capacity, Loading %, Temperature, History Alarm.				
Audible Alarms	Battery Mode, Low Battery, Overload, Fault				
COMMUNICATION INTERFACE					
Communication port	RS232 (Standard) DB9 or USB or AS400 or SNMP / HTTP(Optional)				
SNMP Manageable	Yes				
ENVIRONMENTAL					
Operation Temperature	0-40°C				
Storage Temperature	- 15 to 50°C				
Relative Humidity	20% to 90 % Non-Condensing				
Audible Noise (at 1 meter from surface of unit)	< 45 dBA @ 1 meter	< 50 dBA @ 1 meter		< 55 dBA @ 1 meter	
MECHANICAL					
Dimensions (W x H x D mm)	160 x 220 x 400	200 x 352 x 450		260 x 717 x 570	
Weight (Net with Battery) (kgs)	15	34	35	90	93

The data and text contained within this brochure are for general information only and can not be deemed as definitive, specifications can change without notice.

BORRI LTD
Systems House • Eckington Business Park
Rotherside Road • Eckington
Sheffield • S21 4HL
Tel: **+44 01246 431431**
Fax: **+44 01246 431444**
Email: sales@borri.co.uk
Web: www.borri.co.uk

BORRI MANUFACTURING
Via 8 Marzo, 2
52010 Bibbiena (Arezzo)
Italy
Tel: **+39 0575 5351**
Fax: **+39 0575 561438**
Email: info@borri.it
Web: www.borri.it

Uninterruptible Power Solutions

75 Years of Continuous Service

06/09 - Version 1

BORRI B300

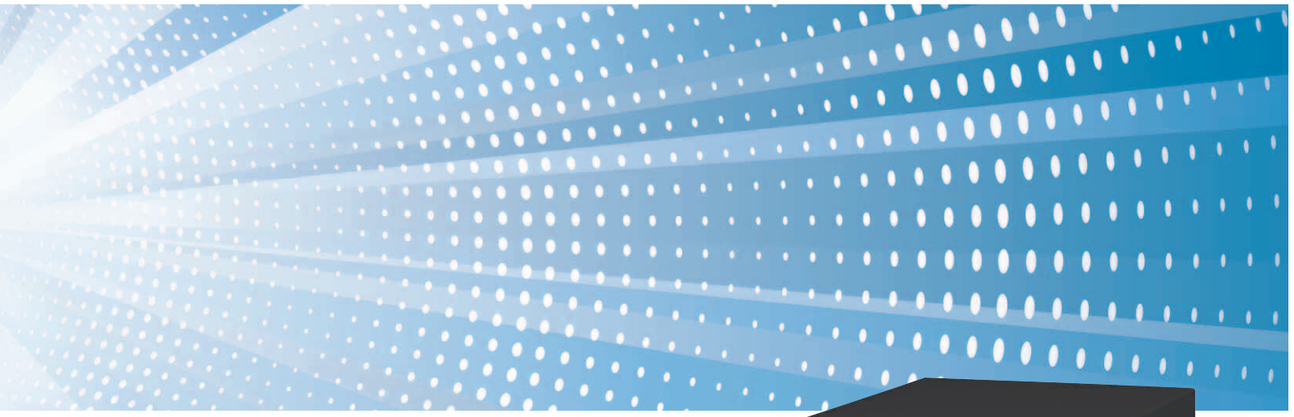
1kVA - 10kVA

BORRI B300

1kVA - 10kVA

With ever greater demands being made on the IT manager, a reliable and robust power supply is crucial in today's computer dependant world. Borri UK are proud to introduce the B300 On-Line UPS to facilitate this need. In the past On-Line technology has struggled against low price Line-Interactive and Off-Line topologies offered by some of the world's biggest brands, however with the help of modern production techniques On-Line technology has come of age.

The B300 is a physically small On-Line double conversion UPS but retains all the features normally associated with On-Line technology. But what is On-Line double conversion technology and why does it matter? Simply put, "double-conversion" means the mains supply is rectified to a clean DC voltage and rebuilt into a very clean and regulated AC voltage, at all times your critical load runs from this clean no break supply.



Line-Interactive and Off-Line UPS are single conversion, so put in its crudest form, your computer runs on semi regulated mains, and will always suffer a small break in supply whist the UPS moves from mains mode to battery mode in a mains fail situation. The B300 offers a competitive price, as standard comes with an LCD screen, RS232, USB port, battery extension options, battery monitoring, no-break supply, static switch, wide voltage input without using batteries, optional software, comms slot for SNMP/ Relays or Optocoupler.

Parallel

A big advantage offered by the B300 6kVA to 10kVA is that by means of a simple cable the machines can be linked together to form a parallel N+1 system. This offers the client the opportunity to either have a fail safe system or the option to expand the power as the network grows. Up to three machines can be connected in this way, making the B300 a flexible and versatile solution.

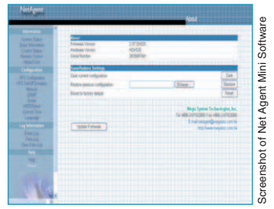
B300 1kVA

UPS Management Software

The UPS management software is installed on a server or workstation connected to each UPS via the serial or USB port. Power failure, power restored, battery failure or eight events will be detected and the user informed. A shutdown will be initiated when the batteries are exhausted or a technical problem occurs with the UPS. The UPS management software disconnects network connections, logs out users and closes open applications (subject to app/os support) before shutting down the operating system itself.

- Extensive log files
- Scheduled battery and inverter testing
- Scheduled system shutdown/re-start
- User-customisable commands and messages
- Multiple UPS control from a single computer
- Remote Console Command module for remote multiple server shutdown
- Internal SNMP sub-agent for integration into existing NMS (e.g. HP OpenView, CA Unicenter)

Screenshots of UPSilon Software



Screenshot of Net Agent Mini Software

UPS Management

Our specialised optional UPS management software gives you the power to monitor and control your UPS from remote locations.

Simple Network Management Protocol (SNMP)

The B300 SNMP external agent can be located up to 5 metres away from the UPS. Initial configuration is carried out by serial comms using any suitable terminal application (e.g. Hyperterminal for Windows).

The embedded HTTP server presents an HTML interface to the network, which can be accessed from any web browser. All system parameters can be configured from here, including scheduled shutdown. A sophisticated Java applet provides full monitoring in real time, along with comprehensive event and history logs.

Standard Properties

- True on-line double conversion technology for high level of protection
- DSP Technology (For 6-10kva)
- Parallel redundancy capability (6-10kva)
- Integrated smartcard slot providing a choice of communications interfaces
- Optional specialised UPS management software
- User friendly LCD display
- Failsafe internal bypass
- Switch with manual control
- Long runtime availability
- Advanced microprocessor control

"True online double conversion for ultimate power protection."