

# BORRI B400

1000VA - 3000VA  
On-line Double Conversion

The Borri B400 - a new range of compact and reliable UPS featuring On-line Double Conversion technology.

## B400 Main Features

- On-Line Double Conversion Topology
- Eco-Mode Function
- Wide Input Voltage Window
- High Efficiency
- Selectable Output Voltage
- Frequency Converter Feature
- EPO Connection
- Intelligent Communication Slot
- IEC Plug Retention Clips
- Intelligent Shutdown and Monitoring Software
- USB Connectivity
- Battery Extension Modules



The B400 was developed around the highest level of protection (On-Line Double Conversion) technology whilst maintaining high efficiency and increasing real power output. The output is VFI (Voltage and Frequency Independent) providing complete isolation from the input mains power. The range includes a static bypass line as standard providing zero transfer time between inverter and bypass. The wide input voltage window enables the B400 to handle brownouts, over-voltages and unsteady mains without switching to batteries thereby extending battery service life. The unit can also be supplied with a powerful internal charger for backup times of up to 8 hours with a 6 hour recovery time.

The B400 is genuinely "plug & play" and is delivered ready for immediate use, the product includes a free download of intelligent, user friendly monitoring and shut-down software with USB connection. It also features an intelligent slot for the option of SNMP, MODBUS or Relay contact interface. Further standard features are IEC output retaining clips and an Emergency Power Off connection.

**The range is suitable for all loads requiring pure true Uninterrupted Power.**

# BORRI B400

## Technical Specification



○ Intelligent Card Slot



○ External Battery Connector



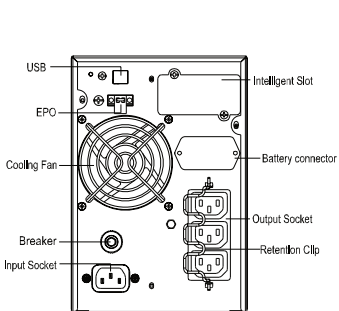
○ Plug Retaining Clip



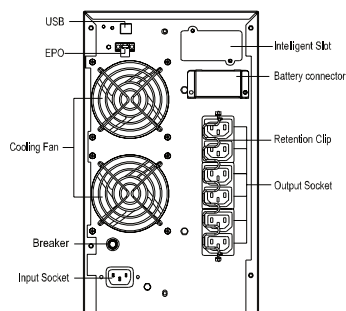
○ USB & EPO Connectors

MODELS	B400-010-B • B400-010-C	B400-020-B • B400-020-C	B400-030-B • B400-030-C
<b>INPUT</b>			
Input Voltage Window	110VAC-300VAC		
THDi	<5% with full load		
Power Factor	≥0.99(FULL LOAD)		
Input Frequency Range	45-55Hz / 54-66Hz		
<b>OUTPUT</b>			
<b>Power</b>			
Power(kVA) max	1.0	2.0	3.0
Power Factor	0.8 (Default)		
	0.6 - 1 (Flexible)		
<b>Output Voltage</b>			
Waveform	Pure Sine Wave		
Nominal voltage	200VAC*/208VAC**/220VAC/230VAC/240VAC		
Voltage regulation	± 2 %		
Transient recovery	100ms (IEC 62040-3 Non-linear load)		
<b>Output Frequency</b>			
Synchronization range	45-55Hz / 54-66Hz		
Slew rate	1 Hz/s		
Battery mode	(50/60±0.2) Hz		
<b>Transfer Time</b>			
Normal mode to battery mode	0ms		
Inverter to bypass, ECO mode	<4ms		
<b>Full Load Efficiency</b>			
ECO mode	>94%		
<b>Overload Capability</b>	110% for 1 min;	125% for 30 seconds ;	>150% for 1 second
<b>Crest Ratio</b>	3:1		
<b>BATTERY</b>			
Rating/Type	12VDC/7Ah • Charger Only	12VDC/7Ah • Charger Only	12VDC/7Ah • Charger Only
DC Voltage	36VDC	96VDC	96VDC
Back-up Time (full load)	>5minutes • N/A	>9minutes • N/A	>5minutes • N/A
<b>FEATURES</b>			
Eco-Mode; Dual Communication; Cold Start; EPO Connection; Fan Speed Control; USB Connectivity; Frequency Converter Mode***			
<b>MECHANICAL</b>			
W x D x H (mm)	145x400x220	192x460x347	
Net Weight	13kg • 7kg	31kg • 13kg	31kg • 13kg
AC Outlets	3 x 10A IEC	6 x 10A IEC	4 x 10A IEC + 1 x 16A IEC
Operating Temperature Range	0°C - 45 °C		
Relative Humidity	0 - 95% (Non Condensing)		
Audible Noise	<45dB @ 1meter		
<b>REGULATIONS</b>			
ESD	IEC 61000-4-2 Level 4		
RS	IEC 61000-4-3 Level 3		
EFT	IEC 61000-4-4 Level 4		
Surge	IEC 61000-4-5 Level 4		
Conduction	IEC 62040-2 Category C1		
Radiation	IEC 62040-2 Category C1		
Safety	IEC 60950-1 / IEC 62040-1-1		

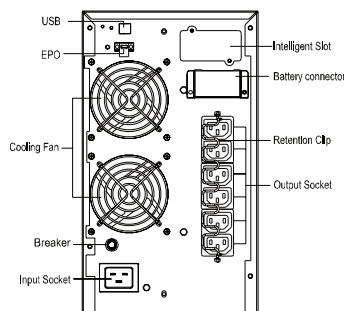
\*Derate to 80% with 200VAC output voltage. \*\*Derate to 90% with 208VAC output voltage. \*\*\*Derate to 60% during Frequency Converter Mode.



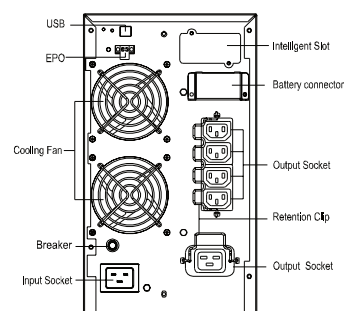
Rear view of B400-010-B (C)



Rear view of B400-020-B



Rear view of B400-020-C



Rear view of B400-030-B (C)