

## Reliable Power Back Up for All IT Equipment Needs

IOGEAR Online UPS Battery Back Up GBB2000N ? 2000VA/1930 Watts is a high-performance UPS system with NEMA 5-20P input plug and 8 NEMA 5-20R outlets designed for most server rack configurations that support data, network and communication applications. It utilizes true double conversion with 96% power factor efficiency for all the power supplied by the UPS for critical IT equipment needs and output voltage regulation provides higher performance for critical applications. The rackmount form factor installs use only two rack spaces (2U). It ships with all mounting accessories for a four-post rackmount installation.

## Online UPS Battery Design

IOGEAR Online UPS design utilizes true double conversion with 96% power factor efficiency over industry & competitor standards for all the power supplied by the UPS for critical server needs and output voltage regulation provides higher performance for critical applications.

- True double-conversion – Output power factor is 0.96, which means all of the power supplied is being used for productive work and makes work the most efficient.
- Output voltage regulation < 1% – Provides higher performance and efficiency for critical applications.
- Programmable power management outlets – Users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to mission-critical devices by shutting down noncritical devices.
- Emergency Power Off function (EPO) – EPO connector at rear panel allows emergency UPS Power Off from a remote location.
- SNMP + USB + RS-232 multiple communications – Allows either USB or RS-232 communication ports to work with SNMP interface simultaneously.
- Hot swappable battery design – All potential UPS maintenance, including complete power module exchange, can be performed without powering down connected equipment. As long as utility power is on, you can leave the UPS and connected equipment on while replacing the battery.
- ECO mode for energy saving – Offers up to 97% efficiency to cut energy usage and cost. UPS power application via static bypass, timely returning to online double conversion when the need arises.
- Provides over-voltage cut-off protection and surge immunity by MOV for full-time equipment protection.
- High power factor charger up to 1000W capacity with very low ripple current when charging battery.
- Multi-functional LCD interface – Displays immediate, detailed information on input voltage, battery capacity, power status, battery status, operating status, and assessed backup runtime, etc.
- Smart battery charger design to optimize battery performance – Adjusts charging voltage according to outside temperatures and extends the useful service life of batteries.



#### Requirements

**Source Outlet Type - NEMA 5-20R**

**Device Plug Type- NEMA 5-20P**

#### Package Contents

- 1 x Online UPS - GBB2000N
- 1 x Rack Mounting Kit Set
- 4 x Tower Stand
- 1 x Rail Slide Kit Set
- 1 x RS-232 Cable
- 1 x USB Type-A to B Cable
- 1 x User Manual

## Specifications

Function	GBB2000N
<b>UPS Topology</b>	On-Line (Double Conversion)
<b>Energy Saving</b>	>96%(ECO), >90%(AC), >89%(Batt)
<b>Network Interface</b>	SNAP Card
<b>Input</b>	
Voltage	100/110/115/120V
Voltage Range	80-150 VAC $\pm$ 5% @ 100% load, 55-150 VAC $\pm$ 5% @ 50% load, Derate capacity to 80% when the output voltage is adjusted to 100VAC
Frequency Range	40 Hz ~ 70 Hz
Cold Start	Yes
Plug Type	NEMA 5-20P
Power Factor	&gE; 0.99 @ nominal voltage (100% load)
Cord Length	6 ft.

<b>Output</b>	
Volt Amp Capacity (VA)	2000
Output Watt Capacity (Watts)	1930
Rated Power Factor	0.96
On Battery Waveform	Sine Wave
On Battery Frequency	50/60Hz +/- 3 Hz
Outlets	8
Outlet Types - Battery & Surge Protected	8 x NEMA 5-20R
Crest Factor	3:1
Harmonic Distortion	&IE; 2 % THDv(Linear Load), &IE; 4 % THDv (Non-linear Load)
Voltage Regulation	$\pm$ 1%(Batt)
Transfer Time (AC to Battery)	0ms
Transfer Time (Inverter to Bypass)	4ms(ECO)

<b>Battery</b>	
Runtime at Half Load (min)	10.0
Runtime at Full Load (min)	2.95
Battery Type	Sealed Lead-Acid
Battery Pack Voltage	48V
Battery Quantity	4
Hot-Swappable	Yes
Typical Recharge Time	3 hours recover to 95% capacity @2A charging current., Max charger current 8A
Extended Battery Module	GBP48V18AH

<b>Environment</b>	
Operation Temperature	0 ? 40 °C(32 ? 104 °F)
Storage Temperature	-20 ? 50 °C(-4 ? 122 °F)
Humidity	20-90% RH / 10% to 95% (no condensing)

<b>Certification</b>	UL FCC
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Dimensions	GBB2000N
<b>Unit Dimensions</b>	
Height	3.5 in. (8.9 cm)
Length	20 in. (50.8 cm)
Width	17.3 in. (44 cm)

<b>Master Carton</b>	
Height	9.75 in. (24.8 cm)
Length	27.75 in. (70.5 cm)
Width	22 in. (55.9 cm)
Master Carton Qty.	1

<b>Weight</b>	
Master Carton Wt.	56.1 lb. (25.5kg)
Unit Wt.	46.5 lb. (21.1 kg)

at Home at Work on-the-Go

