BCB Solution
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BCB Online UPS 1kVA to 10kVA

BCB online UPS is an uninterruptible power supply incorporating double-conversion Technology. The double conversion principle eliminates all power disturbances in the main supply.
BCB online UPS provides an independent, no breaking source of clean, stable, transient free uninterrupted power supply with output neutral bonded to the ground this protects critical loads against power line disturbances and loss of commercial power. The UPS gives an accurately controlled sine wave AC output without any line disturbances. It provides Regulated Sinusoidal Output Voltage under several Input conditions such as power failure, surge, sag, spikes, noise, frequency instability and harmonic distortions. The true advantage of this online UPS is its ability to provide an electrical firewall between the incoming utility power and your sensitive electronic equipment.

Highly reliable single Card-based BCB's Online UPS comprises of a rectifier, an auto float cum boost charger, battery-backed inverter with under-voltage, over-voltage, short-circuit protection along with a high degree of Input to Output isolation. The amplification stage has IGBT technology for pure sine wave output.

- Pure Sine Wave Output
- User Configurable Parameter
- Option for Ethernet connectivity
- IGBT based charger
- Isolation transformer
- Auto Bypass Facility
- Applications

Available in: 1kVA, 2kVA, 3kVA, 5kVA, 6kVA, 7.5kVA, 10kVA.

Key Features

Pure Sine Wave Output
BCB's online UPS is a Microcontroller, High Frequency PWM Technology Based "True Online" Double Conversion UPS System with IGBTs or MOSFETs at the Inverter Stage thus provides pure Sine wave output with high reliability and Efficiency. Making the ALFA online UPS totally fit for running heavy loads like ACs, Industrial Motors and Pumps at gas stations etc. Even highly sensitive medical equipments such as life support systems work flawlessly with this ups.

User Configurable Parameter
This features makes our system user friendly. Dealer can change the parameters according to their requirement. We are giving the following parameter which are configurable through display.
Charging current

- Input Low and High cut (145-275)
- Output Voltage – 230
- Output Voltage-Low & High – 180-250
- Battery Low cut – High cut

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Option for Ethernet connectivity

The ALFA online UPS manufactured by the house of BCB has the option to connect to the internet via a built in Ethernet port at the back of the ups. When connected to the internet BCB'S online UPS let its user to enjoy the freedom of monitoring its working from anywhere he likes, May he be in any part of the world and be using any kind of internet device.

IGBT based charger

BCB's online UPS turns out to be more like a savings account for the user. Being IGBT based this ups has a power factor of a whopping 0.9 where as it is just 0.7 in a parallel SCR based UPS. Because of having a power factor which is relatively higher the ALFA online UPS helps to save up to 40% more power which in turn leads in large savings during its period of use.

Isolation transformer

Online UPS has an inbuilt isolation transformer, this helps in giving a better impedance match of a critical load to an electrical circuit. Totally fit for use in hospitals the isolation transformer in the ALFA online UPS protects the sensitive equipments. BCB'S online UPS suits Indian Power Conditions to its best making it installable anywhere from a hi-tech city to any village in India.

Auto Bypass Facility

ALFA Online UPS is provided with the auto Bypass facility. This protects the UPS in overload condition by shifting the load on Mains when load increases from its rated value. This is done by using a relay which acts as a switch. Relay connects the load to the Mains when the load connected is greater than the rated value. This feature also protects the load by shifting it to the Mains only when Mains is in the safe value for the load.

Applications

- IT equipment's and systems (computers, printers, monitors etc.)
- Process controls, testing & measuring instruments.
- Medical & electronics health-care equipment's & Life-support systems in hospitals.
- Security lighting & Control centers
- Safety systems in power stations
- Audio-visual equipment's.

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BCB Online PFC (Half Electricity Consuming) Series:1 Phase in – 1 Phase Out

Power Rating		KVA	1	2	3	6	7.5	10
	DC Voltage	V	96			120 / 180	180	
Input	Voltage Range	V	145 to 280			175 to 280		
	Frequency	Hz	50 ± 5%					
	Input Power Factor		0.95 @ up tp 120VDC, 0.84 @ 180VDC					
	Charger Topology		BUCK -IGBT					
	Electrical Connection	Input	2.5 mm²	4 mm²	6 mm²	6 mm²	12 mm²	16 mm²
		Output	1.5 mm²	2.5 mm²	2.5 mm²	4 mm²	6 mm²	8 mm²
		Batt. 96V	4 mm²	4 mm²	10 mm²	12 mm²	NA	
		Batt. 120V	4 mm²	4 mm²	6 mm²	12 mm²	NA	
		Batt. 180V	2.5 mm²	4 mm²	4 mm²	6 mm²	10 mm²	
		Earth	2.5 mm²	4 mm²	6 mm²	10 mm²	12/16 mm²	
Output	Load Current	A	3.5	7.0	10.4	17.3	26.0	34.7
	Voltage	V	220 / 230					
	Voltage Regulation	%	±1					
	Frequency (Free Running)	Hz	50 ± 0.05					
	Frequency Sink Mode	Hz	47.5 - 52.5					
	Wave Form		Pure Sine Wave					
	Transient Response	%	<8(10%~90% (Linear Load)					
	Voltage Harmonic	%	<3 (Linear Load)					
	Over Load Capacity	%	100 - 110 : 10 min 110 - 125 : 2 min 125 - 150 : 1 min 150 - 200 : 10 sec. 200 - 300 : 50 ms					
	Crest Factor		3:1					
Audible Warning	Battery Back-up Ending		Intermittent					
	Over load		Continuous					
Display	LED		UPS ON # Battery High/Low # Overload # O/P High/Low # Charging ON # Mains Low/High, Bypass, Fault/Overheat					
Protection			Output Overvoltage# Output undervoltage# Overload# Output Short Circuit # Battery Over voltage # Battery under voltage, Input Low/High.					
Parameter	LCD Display		Input Voltage & Frequency, Output Voltage & Frequency, Load %, Charging Current, DC Voltage, UPS Status					
Interface	DB 9 (Optional)		RS 232/ USB Port, Ethernet					
Others	Battery Start		Standard					
	Cabinet Wheels		NA			Standard		
	Extended Battery Charging		Optional					
	Bypass		Auto ByPass By Relay				Static Bypass (Optional)	
						Default Rotary Switch		
	Auto Bypass (Low - High cut)	V	185 to 250					
	Static Bypass (Low - High cut)	V					185 to 250	
Overall	Efficiency (AC-AC)	%	>85**(Full Load)					
	Transfer Time (Mains to Batt.)	mS	0					
	Temperature	°c	0-40					
	Humidity	%	5-95(Non-Condensed)					
	Dimension(L x W x H)	mm	460 x 260 x 445			610 x 285 x 540	613 x 330 x 670	
	Weight	Kg	40	40	45	65	70	100

*Specification are subject to change without prior notice due to constant improvement in design & technology.