



BCB Solution

Corporate Office

5th Floor, THE NIKOL TRADE CENTER (TNTC)

Nr. Manmohan Cross Road, Virat Nagar Road,

Ahmedabad – 382350

GSTIN: 24APOPJ5957Q1ZY

Mo.: +91-8141201343

Email: sales@bcbsolution.com

Web: www.bcbsolution.com

BCB Online UPS 5kVA to 20kVA (3in 1out)

It 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. 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 the BCB Online UPS is its ability to provide an electrical firewall between the incoming utility power and your sensitive electronic equipment.

- IGBT based charger
- Isolation transformer
- Pure Sine Wave Output with changeover time
- Four line display (20*4)
- User-friendly control setting by Display
- Local and Remote monitoring (Optional)- By GSM and Ethernet
- Extensive electronic protections like
- Typical Applications

IGBT based charger

BCB 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 0.95 whereas it is just 0.7 in a parallel SCR based UPS? Because of having a power factor which is relatively higher the BCB PFC Online UPS helps to save up to 40% more power which in turn leads in large savings during its period of use.

Isolation transformer

BCB UPS has an inbuilt isolation transformer, this helps in giving a better impedance matching of a critical load to an electrical circuit. Totally fit for use in hospitals, the isolation transformer in the BCB UPS protects the sensitive equipment. BCB UPS suits Indian Power Conditions to its best making it install-able anywhere from a Hi-tech city to any village in India.

Pure Sine Wave Output with changeover time

Pure sine wave output reduces audible and electrical noise in appliances thus appliances like fan, tube light won't make any humming noise. Inductive loads like microwaves and motors run faster.

Four line display (20*4)

Easier interface with bigger LCD display and easy to operate with four arrow keys. Four lines LCD display Battery status, Output parameters, Grid parameters.



Work Address - Plot no. 361, Rudra Industrial Park, Bakrol-Dhamatvan Road, Near Nani Cenal Road, Bakrol, Ahmedabad



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User-friendly control setting by Display

- Settable Battery low cut/High cut: Battery low voltage cut can be configured according to battery health and battery type.
- Configurable charging volts and charging Amps: BCB UPS supports various types of batteries like Flat plate /Tubular plate /sealed maintenance free / Lead Acid Battery. User can change maximum charging voltage and charging current according to connected battery type.
- Unique configurable output feature: Settable output offers the opportunity to run different types of load which works on different AC voltage.

Local and Remote monitoring (Optional) - By GSM and Ethernet

It monitors the real-time status of the system from anywhere.

Extensive electronic protections like

Extensive protections like input low/High voltage, Output low/High voltage, Battery low/High, Output short circuit, overheat, Overload.

Typical Applications

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

Power Rating	5KVA	6KVA	7.5KVA	10KVA	15KVA	20KVA
DC Voltage	240V/360V					
INPUT						
Voltage Range	400±20% Three phase four wire					
Frequency	50Hz ± 10%					
Power Factor	>0.92					
Charger Topology	Buck					
Connection Type	Terminal Block					
Grid Charger						
Switching Devices	IGBT					
Switching Freq.	16KHz					
No. of Charger controller	One					
Charger Topology	Buck					
OUTPUT						
Voltage	220V/230V/240V±1% (Selectable from LCD)					
Load Current Per Phase	17.4A	20.87A	26.08A	34.78A	52.17A	69.56A
Efficiency (AC to AC)	>90%@Full Load					
Frequency	50Hz(Default), 60Hz(Optional)					
Waveform	Pure Sine Wave					
Transient Response	<8 (10%~90% Linear Load)					
Voltage Harmonics	<3% Linear Load					
Overload capacity	100 to 110%-10 Min., 110 to 120%-2 Min.; 120 to 150%-30 Sec; 150 to 200%-2 sec; 200 to 300%-1sec.; 300 to 400%-250msec; >400%-20-30msec.					
Crest factor	3:1					
Voltage regulation	±1%					
Frequency Regulation	±0.05Hz					
Connection Type	Terminal Block					
Audible warning						
Alarm	Battery Low, Battery High, Overload, Mains Present.					
Indications						
LED	#UPS ON #Mains CHG. #Overload #Output High/Low #Battery High/Low #CHG. OVERHEAT #AC Input High/Low R,Y,B #FAULT #Bypass (Optional)					
LCD (20x4)	#Input Voltage & Freq. R,Y,B #Output Voltage, Freq. & Load% #Battery Voltage #Charging Current,#Working Status					
Protections						
Parameters	#Output Overvoltage/Undervoltage, #Overload, #Output Shortcircuit,#Battery Overvoltage/undervoltage,#Input overvoltage/undervoltage,Thermal					
Communication & Management						
Remote Monitoring	Ethernet (Optional)					
Miscellaneous						
Transfer Time	0 msec					
Extended Battery Charging	Optional					
Caster Wheels	Yes					
Environmental						
Operating Environment	0-50 °C					
Operating Relative Humidity	(5%-95%) Non-condensed					
Storage Environment	0-75 °C					
Storage Relative Humidity	0-95%					
Degree Protection	IP20					

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



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BCB Online UPS 5kVA to 20kVA (3in 3out)

BCB UPS comprises 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.

- IGBT based charger
- Isolation transformer
- Pure Sine Wave Output with changeover time
- Four line display (20*4)
- User-friendly control setting by Display
- Local and Remote monitoring (Optional)- By GSM and Ethernet
- Extensive electronic protections like
- Typical Applications

IGBT Based Charger

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Isolation Transformer

BCB UPS has an inbuilt isolation transformer, this helps in giving a better impedance matching of a critical load to an electrical circuit. Totally fit for use in hospitals, the isolation transformer in the BCB UPS protects the sensitive equipment. BCB Online UPS 5kVA to 20kVA suits Indian Power Conditions to its best making it installable anywhere from a Hi-tech city to any village in India.

Pure Sine Wave Output with Changeover Time

Pure sine wave output reduces audible and electrical noise in appliances thus appliances like fan, tube light won't make any humming noise. Inductive loads like microwaves and motors run faster.

Four Line Display (20*4)

Easier interface with bigger LCD display and easy to operate with four arrow keys. Four lines LCD display Battery status, Output parameters, Grid parameters.

User-friendly Control Setting by Display

- Settable Battery low cut/High cut: Battery low voltage cut can be configured according to battery health and battery type.
- Configurable charging volts and charging Amps: BCB UPS supports various types of batteries like Flat plate /Tubular plate /sealed maintenance free / Lead Acid Battery. User can change maximum charging voltage and charging current according to connected battery type.
- Unique configurable output feature: Settable output offers the opportunity to run different types of load which works on different AC voltage.

Local and Remote Monitoring (Optional)- By GSM and Ethernet

It monitors the real-time status of the system from anywhere.

Extensive Electronic Protections like

Extensive protections like input low/High voltage, Output low/High voltage, Battery low/High, Output short circuit, overheat, Overload.



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Typical Applications

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- IT equipment and systems (computers, printers, monitors etc.)
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- Security lighting & Control centers
- Safety systems in power stations
- Audio-visual equipment
- CNC Machines
- Embedded Machines etc.

Power Rating	5KVA	6KVA	7.5KVA	10KVA	15KVA	20KVA
DC Voltage	240V/360V					
INPUT						
Voltage Range	400V ± 20% Three Phase four wirt					
Frequency	50Hz ± 10%					
Power Factor	>0.92					
Charger Topology	Buck					
Connection Type	Terminal Block					
Grid Charger						
Switching Devices	IGBT					
Switching Freq.	16KHz					
No. of Charger controller	One					
Charger Topology	Buck					
OUTPUT						
Voltage	380V/400V±1% (3Phase 4wire)					
Load Current Per Phase	5.8A	6.95A	8.7A	11.6A	17.4A	23.2A
Efficiency (AC to AC)	>90%@Full Load					
Frequency	50Hz					
Waveform	Pure Sine Wave					
Transient Response	<8 (10%~90% Linear Load)					
Voltage Harmonics	<3% Linear Load					
Overload capacity	100 to 110%-10 Min., 110 to 120%-2 Min.; 120 to 150%-30 Sec; 150 to 200%-2 sec; 200 to 300%-1sec.; 300 to 400%-250msec; >400%-20-30msec.					
Crest factor	3:1					
Voltage regulation	±1%					
Frequency Regulation	±0.05Hz					
Connection Type	Terminal Block					
Audible warning						
Alarm	Battery Low, Battery High, Overload, Mains Present.					
Indications						
LED	#UPS ON #Mains CHG. #Overload R,Y,B #Output High/Low R,Y,B #Battery High/Low #CHG. OVERHEAT #AC Input High/Low R,Y,B #FAULT					
LCD (16*4)	#Input Voltage & Freq. R,Y,B #Output Voltage, Freq. & Load% R,Y,B #Battery Voltage #Charging Current, #Working Status					
Protections						
Parameters	#Output Overvoltage/Undervoltage, #Overload, #Output Shortcircuit,#Battery Over voltage/undervoltage, #Input overvoltage/undervoltage					
Communication & Management						
Remote Monitoring	Ethernet (Optional)					
Miscellaneous						
Transfer Time	0 msec					
Extended Battery Charging	Optional					
Caster Wheels	Yes					
Environmental						
Operating Environment	0-50 °C					
Operating Relative Humidity	(5%-95%) Non-condensed					
Storage Environment	0-75 °C					
Storage Relative Humidity	0-95%					
Degree of Protection	IP20					

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BCB Online UPS 20kVA to 40kVA

BCB PFC online ups provide 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. 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 the BCB PFC Online UPS is its ability to provide an electrical firewall between the incoming utility power and your sensitive electronic equipment.

BCB Online UPS comprises 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.

- IGBT based charger
- Isolation transformer
- High-Performance DSP based design
- Pure Sine Wave Output with zero changeover time
- Four line display (20*4)
- User-friendly control setting by Display
- Local and Remote monitoring (Optional)- By GSM and Ethernet
- Extensive electronic protections
- Typical Applications

IGBT Based Charger

BCB PFC 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 0.95 whereas it is just 0.7 in a parallel SCR based UPS? Because of having a power factor which is relatively higher the BCB PFC Online UPS helps to save up to 40% more power which in turn leads in large saving during its period of use.

Isolation Transformer

BCB PFC online UPS has an inbuilt isolation transformer, this helps in giving a better impedance matching of a critical load to an electrical circuit. Totally fit for use in hospitals, the isolation transformer in the BCB PFC Online UPS protects the sensitive equipment. BCB PFC Online UPS suits Indian power conditions to its best making it installable anywhere from a high-Tech city to any village of India.

Performance DSP based design

Fast controlling with digital signal processing based design to deal with input voltage transients.



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Pure Sine Wave Output with Zero Changeover Time

BCB's PFC Online UPS is a High-Frequency PWM Technology Based "True Online" Double Conversion UPS System with IGBTs at the Inverter Stage, thus provides pure Sine wave output with high reliability and efficiency. Pure sine wave output reduces audible and electrical noise in appliances thus appliances like fan, tube light won't make any humming noise.

Four Line Display (20*4)

Easier interface with bigger LCD display and easy to operate with four arrow keys. Four lines LCD display Battery status, Output parameters, Grid parameters.

User-friendly Control Setting by Display

Settable Battery low cut/High cut: Battery low voltage cut can be configured according to battery health and battery type.

Unique configurable output feature: Settable output offers the opportunity to run different types of load which works on different AC voltage.

Local and Remote Monitoring (Optional)- By GSM and Ethernet

It monitors the real-time status of the system from anywhere.

Extensive Electronic Protections

Extensive protections like Input low/High voltage, Output low/High voltage, Battery low/High, Output short circuit, overheat, Overload.

Typical Applications

- IT equipment and systems (computers, printers, monitors etc.)
- Process controls, testing & measuring instruments.
- Electronics health-care equipment & Life-support systems in hospitals.
- Security lighting & Control centers
- Safety systems in power stations
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Power Rating		KVA	25	30	40
Input	DC Voltage	V	360		
	Voltage Range (AC)	V	400V±20% Three phase four wire		
	Frequency	Hz	50 ± 10%		
	Input Power Factor	Lag	0.94		
	Charger Topology		BUCK (IGBT Charger)		
	Electrical Connection Type		Terminal Block		
Output	Voltage	V	220 / 230 - 1Ø 2wire		
	Voltage Regulation	%	±1		
	Frequency	Hz	50		
	Frequency Regulation	Hz	±0.05		
	Load Current	A	86.9	104.3	139
	Wave Form		Pure Sine Wave		
	Transient Response	%	<8(10%~90% (Linear Load))		
	Voltage Harmonic	%	<3 (Linear Load)		
	Over Load Capacity	%	100 to 110 : 10 minutes 110 to 120 : 2 minutes 120 to 150 : 30 sec.	150 to 200 : 1 sec. 200 to 300 : 50 msec. >300 : 20 msec.	
	Crest Factor		3:1		
Audible Warning	Alarm		Battery Low, Battery High, Overload, Mains Present		
Display	LED		UPS ON # Battery High/Low # Overload # Output Volt. High/Low # Mains High/Low R-Y-B, CHG. ON #		
	LCD Display (16x4)		#Input Voltage & Freq. R,Y,B, Output Voltage & Freq. # Batt. Voltage # Output Voltage/ Freq./ Load Percentage # Status Window		
Protection			# O/P Over Voltage/Under Voltage # Overload # I/P Low/High # O/P Short Circuit # Battery Over voltage / Under Voltage, Thermal		
Others	Manual Bypass		Default rotary switch (make after break)		
	Cabinet Wheels		Yes		
	Extended Battery Charging		Optional		
Overall	Efficiency (AC-AC)	%	>90@ Full Load		
	Transfer Time	mS	0		
	Operating Environment	°C	0-50		
	Operating Relative Humidity	%	5-95 (Non-Condensed)		
Physical	Dimension(L x W x H)	mm	985 x 660 x 890		845 x 855 x 1085
Communication	Remote Monitoring		IP 20		

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BCB Online UPS 25kVA to 120kVA

BCB PFC online ups provide 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. 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 the BCB PFC Online UPS is its ability to provide an electrical firewall between the incoming utility power and your sensitive electronic equipment.

BCB UPS totally fit for running heavy loads like ACs, Industrial Motors and Pumps at gas stations etc. Even highly sensitive medical equipment such as life support systems work flawlessly with this UPS.

- IGBT based charger
- Isolation transformer
- High-Performance DSP based design
- Pure Sine Wave Output with zero changeover time
- Four line display (20*4)
- User-friendly control setting by Display
- Local and Remote monitoring (Optional)- By GSM and Ethernet
- Extensive electronic protections
- Typical Applications

IGBT Based Charger

BCB PFC Online UPS turns out to be more like a savings account for the user. Being IGBT Technology based this UPS has a power factor of a whopping 0.95 whereas it is just 0.7 in a parallel SCR based UPS? Because of having a power factor which is relatively higher the BCB PFC Online UPS helps to save up to 40% more power which in turn leads in large savings during its period of use.

Isolation Transformer

BCB PFC online UPS has an inbuilt isolation transformer, this helps in giving a better impedance matching of a critical load to an electrical circuit. Totally fit for use in hospitals, the isolation transformer in the BCB PFC Online UPS protects the sensitive equipment. BCB Online UPS 25kVA to 120kVA suits Indian Power Conditions to its best making it installable anywhere from a Hi-tech city to any village in India.

High-Performance DSP Based Design

Fast controlling with digital signal processing based design to deal with input voltage transients

Pure Sine Wave Output with Zero Changeover Time

BCB PFC Online UPS is a High-Frequency PWM Technology Based “True Online” Double Conversion UPS System with IGBTs at the Inverter Stage, thus provides pure Sine wave output with high reliability and efficiency. Pure sine wave output reduces audible and electrical noise in appliances thus appliances like fan, tube light won't make any humming noise.



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User-friendly Control Setting by Display

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Unique configurable output feature: Settable output offers the opportunity to run different types of load which works on different AC voltage

Local and Remote Monitoring (Optional)- By GSM and Ethernet

It monitors real-time status of the system from anywhere.

Extensive Electronic Protections

Extensive protections like Input low/High voltage, Output low/High voltage, Battery low/High, Output short circuit, overheat, Overload

Typical Applications

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

Power Rating		KVA	25	30	40	50	60	80	100	120					
Input	DC Voltage	V	360												
	Voltage Range(AC)	V	400±20% 3Phase in 4wire												
	Frequency	Hz	50 ±10%												
	Input Power Factor	Lag	0.94												
	Charger Topology		BUCK (IGBT Charger)												
	Electrical Connection Type		Terminal Block												
Output	Voltage	V	380/400 ± 1%												
	Voltage Regulation	%	±1												
	Frequency	Hz	50												
	Frequency Regulation	Hz	±0.05												
	Load Current	A	29	34.8	46.3	57.9	69.5	92.75	115.9	139					
	Wave Form		Pure Sine Wave												
	Transient Response	%	<8(10%~90% (Linear Load))												
	Voltage Harmonic	%	<3 (Linear Load)												
	Overload Capacity	%	100 to 110 : 10 minutes			150 to 200 : 1 sec.			200 to 300 : 50 msec.			120 to 150 : 30 sec.		>300 : 20 msec.	
	Crest Factor		3:1												
Audible Warning	Alarm		Battery Low, Battery High, Overload, Mains Present												
Display	LED		UPS ON # Battery High/Low # Overload R-Y-B # Output Volt. High/Low R-Y-B # Mains High/Low R-Y-B , CHG. ON #												
	LCD Display (20x4)		# Input & Output R-Y-B Voltage & R-Y-B Frequency # Batt. Voltage # Charging Current # R-Y-B Load Percentage, Status Window												
Protection			# O/P Over Voltage/Under Voltage # Overload # I/P Low/High # O/P Short Circuit # Battery Over voltage / Under Voltage, Thermal												
Others	Static Bypass		Optional												
	Manual Bypass		Default rotary switch (make after break)												
	Cabinet Wheels		Yes												
	Extended Battery Charging		Optional												
Overall	Efficiency (AC-AC)	%	>90@ Full Load												
	Transfer Time	ms	0												
	Operating Environment	°c	0-50												
	Operating Relative Humidity	%	5-95 (Non-Condensed)												
Physical	Dimension (L x W x H)	mm	985 x 660 x 890			845 x 855 x 1085			1250 x 860 x 1740						
Communication	Remote Monitoring		Ethernet (Optional)												

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