

**VOLTGUARD**  
  
**UPS**

UNINTERRUPTED POWER SUPPLY AND VOLTAGE REGULATOR



# PRODUCT CATALOGUE 2023








[WWW.VOLTGUARDUPS.COM](http://WWW.VOLTGUARDUPS.COM)

# VOLTGUARD UPS

Volt-G Ups produces high-tech uninterrupted power supplies for continuous energy; provides sustainable and efficient energy solutions each different scales. Volt-G Ups offers silent, smooth and uninterrupted energy that makes every moment precious to seize.

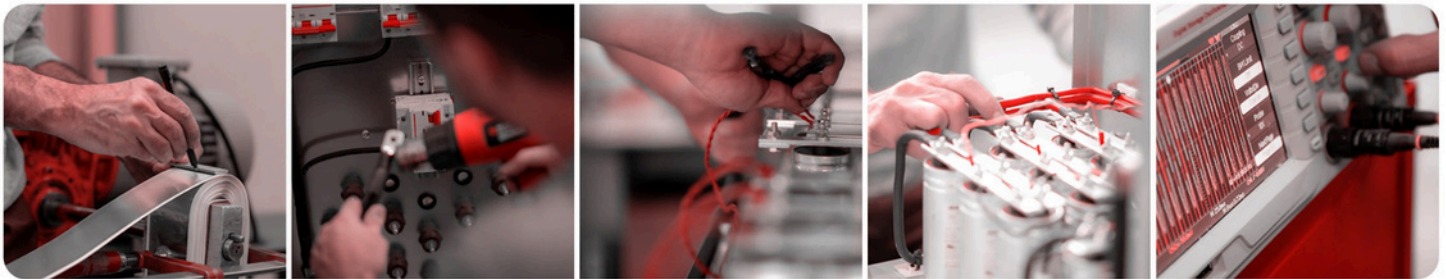




Volt-G UPS, one of the leading Uninterruptible Power Supply (UPS) manufacturers in Germany, was established in 1994 with high technology to design power systems.

Our product range, designed with a worldwide understanding of quality and ISO 9001 rules, includes Uninterruptible Power Supply (UPS) Systems, Voltage Regulators, Rectifiers, DC Power Supplies, Battery Chargers, Inverters, Rack Cabinet Modular UPS Systems.

Our R&D and Manufacturing staff, led by experienced engineers and technicians, works to meet the needs of customers by integrating advanced technologies, our company produces the highest technology devices in the world by following current technologies in power electronics and accelerating.



### OUR MISSION

For 30 years, our company continues to grow with professional approaches without losing its amateur spirit and to increase its R&D investments. We produce to meet the expectations of our customers by developing the best in every detail and creating more value with our technology.

### OUR VISION

Volt-G UPS, a technology developer and manufacturer with an international understanding of quality, aims to grow by focusing on after-sales service quality and customer satisfaction with the responsibility of Germany's international technology brand, while reaching a wide range of customers.





# Seize The Moment!

On the cutting edge of power technology Volt-G Ups, produced in accordance with the uninterrupted energy security needs of different service sector projects, adds value to terminals connected to power supply... Success is seizing the moment.



# LINE-INTERACTIVE UNINTERRUPTIBLE POWER SUPPLIES

## S SERIES 800-3500 VA

1 PHASE INPUT - 1 PHASE OUTPUT



- Microprocessor-Controlled Circuit Design
- High Efficiency of Up to 98% (AC-AC)
- Output Featuring an Isolation Transformer
- Operates on Battery Without Mains Power

Mains Power, Charging System, and Control Panel  
Equipped with LED

- Indicating Battery Status
- Compliance with international standards
- Custom Production, Input/Output values
- Design with a lid that can be opened from 3 sides, providing fast service
- 2 Year Device and Battery Warranty
- 10 Year Spare Parts Supply Guarantee
- Experienced Technical Service and Customer Service Support throughout Germany

### APPLICATIONS

- Small and Medium businesses
- Lighting and Security systems
- Emergency Systems (Alarm)
- Communication Devices
- Heater Systems
- Server and Server Rooms
- Personal Computers
- Small Computer Network

### ADVANTAGES

- Energy save
- Network filtering
- Long-term supply with external battery
- Clean and stable output voltage
- Overload and short-circuit protection
- Adjustable values

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UPS



MODEL	SL-800	SG-1400	ST-2500	SX-3500
POWER	800 VA	1400 VA	2500 VA	3500 VA
INPUT				
Voltage	220 V AC			
Voltage Tolerance	- 25% / + 15%			
Max. Current	0,5 A	1 A	1,5 A	1,5 A
Frequency	50 Hz ± 5%			
Protection	Current limiting in rectifier, Fuse			
OUTPUT				
Power	800 VA	1400 VA	2500 VA	3500 VA
Power Factor	0,8			
Voltage	220 V AC			
Voltage Tolerance	± 5%			
Frequency	50 Hz			
Frequency Tolerance	± 1%			
Wave Form	Modified Sinus			
Transfer Time	3 ~ 5 msn			
Efficiency (Full Load)	> 97% (With mains); > 85% (Without mains)			
Overload Protection	Shutdown at 150% Load Overload			
Short Circuit Protection	Electronic Short Circuit Protection			
Communication Interface	RS 232 (Optional)			
Output Isolation	Load Isolation with Isolation Transformer			
BATTERY				
Number of Batteries	1	3	4	6
Charging Voltage	13,5 VDC	40,5 VDC	54 VDC	81 VDC
Discharge Limit	10 VDC	30 VDC	40 VDC	60 VDC
Back-up Time	12 min. ~ 20 hour			
Charging Type	Voltage Controlled Periodic Charge			
Battery Protection	Auto Power Off			
Battery Operation Warning	Indicator and 4 Times Intermittent Signal			
Battery Low Warning	Continuous Intermittent Signal			
Battery Cabinet	Internal / External			
GENERAL				
Control Panel	LED Indicator and Button			
Operating Temperature	0 C - 40 C			
Noise Level (1 meter)	< 40 dBA			
Protection Class	IP 20			
Altitude	< 2000 m.			
Humidity	90 % max.			
Dimensions (wxdxh) mm	200x340x220	200x380x260		
Weight kg (Without Battery)	10	16	20	20



# B SERIES 6-20 kVA



1 PHASE INPUT - 1 PHASE OUTPUT



- Operates Independently of Input Voltage and Frequency per VFI-SS-111 Standard
  - DSP Controlled IGBT Rectifier and Inverter with Battery Charging System
  - Wide Input Voltage Range (80-280 V AC)
  - High Input Power Factor (>99%)
  - Up to 95% Efficiency On-Line
  - Up to 98% Efficiency in Eco-Mode
  - True Pure Sine Output Waveform with Low Harmonic Distortion
  - Static and Manual Bypass Options
  - Protection Against Electromagnetic Interference and RFI
  - Digital Panel Displaying Comprehensive Information on Mains, Charging System, Battery Status, and Output Voltage
  - Intelligent Charging System to Extend Battery Lifespan
  - Compact Size with Modular Design and Internal Battery Cabinet for Minimum Backup Time
  - Communication via RS 232 Serial Port for Remote Monitoring and Safe Network Shutdown
  - Smart Relay Contact Outputs
  - Smart Fan with Speed Control for Quiet Operation
  - Custom Production Available for Input/Output Specifications
  - Compliance with International Standards
  - Innovative Design with a Lid that Opens from Three Sides for Quick Service
  - 2-Year Warranty on Device and Battery
  - 10-Year Spare Parts Supply Guarantee
- Experienced Technical and Customer Service

## APPLICATIONS

- IT Centers
- Factories
- Medical Devices
- Emergency Systems (Alarm)
- Communication Devices
- Server and Server Rooms
- Industrial Applications
- Personal Computers
- Small Computer Network
- Network systems

## ADVANTAGES

- Transformerless structure
- Latest technology
- Energy save
- Clean and stable output voltage
- Overload and short-circuit protection
- Wheeled and takes up little space
- Remote monitoring
- Adjustable values
- Generator compatibility



MODEL	BT-6	BX-10	BY-15	BZ-20
POWER	6 kVA	10 kVA	15 kVA	20 kVA
INPUT				
Voltage	220 VAC ( 1 Phase + Neutral )			
Voltage Tolerance	80-280 V AC (Variable with load)			
Power Factor (Full Load)	> 0,99			
Max. Current	30A	50A	75A	100A
Frequency	50 Hz ± 12%			
Protection	Electronic Current Limitation in Rectifier, Over Voltage Protection, Fast Fuses			
OUTPUT				
Power	6 kVA	10 kVA	15 kVA	20 kVA
Power Factor	0,8			
Voltage	220 V AC			
Voltage Tolerance	± 1%			
Frequency	50 /60 Hz			
Frequency Tolerance	± 1%			
Wave Form	Pure sine wave			
Transfer Time	0 ms			
Efficiency (Full Load)	>91%	>92%	>93%	
THD (100% Lineer Load)	< 3%			
THD (100% Non-Lineer Load)	< 5%			
Crest Factor	3:1			
Overload Protection	By-Pass at 150% overload			
Short Circuit Protection	Advanced security with artificial intelligence algorithms			
Communication Interface	RS 232			
BATTERY				
Number of Batteries	20	24		
Charging Type	DSP Controlled Intelligent Charge			
Charging Voltage	276 VDC	331 VDC		
Discharging Voltage	210 VDC	252 VDC		
Back-up Time (at load)	5-480 min.			
Battery Operation Warning	Buzzer			
Battery Low Protection	Automatic Shutdown			
Battery Cabinet	Internal / External			External
GENERAL				
Control Panel	Digital Liquid Crystal Display (4x20) with touchpad			
Operating Temperature	0 C - 40 C			
Noise Level (1 meter)	< 45 dBA	< 50 dBA		
Protection Class	IP 20			
Altitude	< 2000 m			
Humidity	95% max.			
Dimensions (wxdxh) mm	280x540x700	280x635x750		
Weight kg (Without Battery)	27	33	44	47

ON-LINE UNINTERRUPTIBLE POWER SUPPLIES

# B SERIES 6-20 kVA Rack Mount

1 PHASE INPUT - 1 PHASE OUTPUT



- Operates independently of input voltage and frequency, adhering to the VFI-SS-111 standard
- DSP-controlled IGBT rectifier and inverter battery charging system
- Wide input voltage range (80-280 V AC)
- High input power factor (>99%)
- On-line efficiency of up to 95%
- Eco-Mode efficiency reaching up to 98%
- Produces a true pure sine output waveform with low harmonic distortion
- Features static and manual bypass options
- Offers electromagnetic and RFI protection
- Digital panel displays detailed information on mains, charging system, battery status, and output voltage
- Intelligent charging system designed to extend battery life
- Compact size with a modular structure, allowing for rack mounting and horizontal or vertical installation
- Communication via RS 232 serial port for remote monitoring and safe shutdown in networks, along with smart relay contact outputs
- Equipped with a smart fan that includes speed control for quiet operation
- Custom production with adjustable input/output values
- Complies with international standards
- Designed with a lid that opens from three sides for quick servicing
- Includes a 2-year warranty for the device and battery
- Guarantees 10 years of spare parts supply

Provides experienced technical and customer service support throughout Germany

## APPLICATIONS

- IT Centers
- Factories
- Medical Devices
- Emergency Systems (Alarm)
- Communication Devices
- Server and Server Rooms
- Industrial Applications
- Personal Computers
- Small Computer Network
- Network systems

## ADVANTAGES

- Transformerless structure
- Latest technology
- Energy save
- Clean and stable output voltage
- Overload and short-circuit protection
- Remote management
- Adjustable values
- Generator compatibility

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MODEL	BT-6R	BX-10R	BY-15R	BZ-20R
POWER	6 kVA	10 kVA	15 kVA	20 kVA
INPUT				
Voltage	220 VAC ( 1 Phase + Neutral )			
Voltage Tolerance	80-280 V AC (Variable with load)			
Power Factor (Full Load)	> 0,99			
Max. Current	30A	50A	75A	100A
Frequency	50 Hz ± 12%			
Protection	Electronic Current Limitation in Rectifier, Over Voltage Protection, Fast Fuses			
OUTPUT				
Power	6 kVA	10 kVA	15 kVA	20 kVA
Power Factor	0,8			
Voltage	220 V AC			
Voltage Tolerance	± 1%			
Frequency	50 /60 Hz			
Frequency Tolerance	± 1%			
Wave Form	Pure sine wave			
Transfer Time	0 ms			
Efficiency (Full Load)	>91%	>92%	>93%	
THD (100% Lineer Load)	< 3%			
THD (100% Non-Lineer Load)	< 5%			
Crest Factor	3:1			
Overload Protection	By-Pass at 150% overload			
Short Circuit Protection	Advanced security with artificial intelligence algorithms			
Communication Interface	RS 232			
BATTERY				
Number of Batteries	20	24		
Charging Type	DSP Controlled Intelligent Charge			
Charging Voltage	276 VDC	331 VDC		
Discharging Voltage	210 VDC	252 VDC		
Back-up Time (at load)	5-480 min.			
Battery Operation Warning	Buzzer			
Battery Low Protection	Automatic Shutdown			
Battery Cabinet	Internal / External			External
GENERAL				
Control Panel	Digital Liquid Crystal Display (4x20) with touchpad			
Operating Temperature	0 C - 40 C			
Noise Level (1 meter)	< 45 dBA	< 50 dBA		
Protection Class	IP 20			
Altitude	< 2000 m			
Humidity	95% max.			
Dimensions (wxdxh) mm	440x590x216		440x700x216	
Weight kg (Without Battery)	26	32	43	46



# N SERIES 1-2-3 kVA Mini

1 PHASE INPUT - 1 PHASE OUTPUT



- High-Performance DSP Controlled Technology
- True On-Line Double Conversion with IGBT Rectifier
- True Pure Sine Wave Output Voltage
- Wide Input Voltage Range (110-300 V AC)
- High Input Power Factor (>99%)
- High Output Power Factor (kVA = kW)
- 50Hz/60Hz Frequency Converter Mode
- Electromagnetic and RFI Protection
- Digital Panel providing detailed information about Mains, Charging System, Battery Status and Output Voltage
- Starting from Battery without Mains - Digital Charging System that ensures the long life of the batteries - Longer Supply with External Battery Pack (With Long Model) - Communication from RS 232 Serial Port for remote monitoring and secure shutdown in networks,
- Plug and Play Monitoring Software with USB (Optional)
- High Security with EPO (Emergency Power O ) Connection
- Compliance with international standards
- 2 Years Device and Battery Warranty
- 10 Years Spare Parts Supply Guarantee
- Experienced Technical Service and Customer Service Support throughout Germany

## APPLICATIONS

- IT Centers
- Factories
- Medical Devices
- Emergency Systems (Alarm)
- Communication Devices
- Server and Server Rooms
- Personal Computers
- Small Computer Network
- Network systems

## ADVANTAGES

- Transformerless structure
- Latest technology
- Energy save
- Clean and stable output voltage
- Overload and short-circuit protection
- Remote monitoring
- Adjustable values
- EPO and Generator compatibility

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MODEL	NM-1KVA	NML-1KVA	NP-2KVA	NPL-2KVA	NR-3KVA	NRL-3KVA
POWER (W)	1000 W		2000 W		3000 W	
INPUT						
Voltage	208/220/230/240 VAC (L + N + PE)					
Voltage Tolerance	110 - 300 V AC					
Power Factor (Full Load)	> 0,99					
Frequency	50 / 60 Hz ± 10 Hz					
Protection	Electronic Current Limitation in Rectifier, Over Voltage Protection, Fast Fuses					
OUTPUT						
Power Factor	1,0					
Voltage	208/220/230/240 VAC (L + N + PE)					
Voltage Tolerance	± 1%					
Frequency	50 -60 Hz					
Frequency Tolerance	± 0,05% (With Battery Mode)					
Wave Form	Pure Sine Wave					
Transfer Time	0 ms (AC Mode to Battery Mode)					
THD (100% Linear Load)	≤ 3%					
THD (100% Non-Linear Load)	≤ 5%					
Crest Factor	3:1					
Overload Protection (AC Mode)	102 - 110% Load 30 min.					
	110 - 130% Load 10 min.					
	130 - 150% Load 30 s.					
	> 150% 200 ms.					
Short Circuit Protection	Electronic Short Circuit Protection					
Communication Interface	RS 232					
BATTERY						
Number of Batteries	2	3	4	6	6	8
Charging Voltage	27 VDC	40,5 VDC	108 VDC	81 VDC	81 VDC	108 VDC
Discharging Voltage	20 VDC	30 VDC	40 VDC	60 VDC	60 VDC	80 VDC
Charging Current	1A	5A	1A	5A	1A	5A
Battery Operation Warning	Buzzer and Display alert					
Battery Low Protection	Auto Shut o					
Battery Cabinet	Internal	External	Internal	External	Internal	External
GENERAL						
Control Panel	LCD Display and Multiple selection keys					
Operating Temperature	0 C - 40 C					
Noise Level (1 meter)	≤ 50 dBA					
Protection Class	IP 20					
Altitude	1000 m - 4000 m (IEC62040)					
Humidity	95% max.					
Weight kg	9	5	17	9	21,4	9
Dimensions (wxdxh) mm	349x144x225		395x190x225		395x190x325	

# N SERIES 6-10 kVA



1 PHASE INPUT - 1 PHASE OUTPUT



- High-Performance DSP Controlled Technology
- True On-Line Double Conversion with IGBT Rectifier
- True Pure Sine Wave Output Voltage
- Wide Input Voltage Range (110-300 V AC)
- High Input Power Factor (>99%)
- High Output Power Factor (kVA = kW)
- 50Hz/60Hz Frequency Converter Mode
- Electromagnetic and RFI Protection
- Digital Panel providing detailed information about Mains, Charging System, Battery Status, and Output Voltage
- Starting from Battery without Mains
- Digital Charging System that ensures the long life of the batteries
- Longer Supply with External Battery Pack (With Long Model)
- Communication from RS 232 Serial Port for remote monitoring and secure shutdown in networks,
- Plug and Play Monitoring Software with USB (Optional) -
- High Security with EPO (Emergency Power O ) Connection -
- Compliance with international standards - 2 Years Device and Battery Warranty - 10 Years Spare Parts Supply Guarantee -
- Experienced Technical Service and Customer Service Support throughout Germany

## APPLICATIONS

- IT Centers
- Factories
- Medical Devices
- Emergency Systems (Alarm)
- Communication Devices
- Server and Server Rooms
- Personal Computers
- Small Computer Network
- Network systems

## ADVANTAGES

- Transformerless structure
- Latest technology
- Energy save
- Clean and stable output voltage
- Overload and short-circuit protection
- Remote monitoring
- Adjustable values
- EPO and Generator compatibility

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MODEL	NT-6KVA	NTL-6KVA	NX-10KVA	NXL-10KVA
POWER (W)	6000 W		10000 W	
INPUT				
Voltage	208/220/230/240 VAC (L + N + PE)			
Voltage Tolerance	110 - 300 V AC			
Power Factor (Full Load)	> 0,99			
Frequency	50 / 60 Hz ± 10 Hz			
Protection	Electronic Current Limitation in Rectifier, Over Voltage Protection, Fast Fuses			
OUTPUT				
Power Factor	1,0			
Voltage	208/220/230/240 VAC (L + N + PE)			
Voltage Tolerance	± 1%			
Frequency	50 -60 Hz			
Frequency Tolerance	± 0,05% (With Battery Mode)			
Wave Form	Pure Sine Wave			
Transfer Time	0 ms (AC Mode to Battery Mode)			
THD (100% Linear Load)	≤ 3%			
THD (100% Non-Linear Load)	≤ 5%			
Crest Factor	3:1			
Overload Protection (AC Mode)	102 - 110% Load 30 min.			
	110 - 130% Load 10 min.			
	130 - 150% Load 30 s.			
	> 150% 200 ms.			
Short Circuit Protection	Electronic Short Circuit Protection			
Communication Interface	RS 232			
BATTERY				
Number of Batteries	16 (12-14-20 Qty. Optional)			
Charging Voltage	216 VDC			
Discharging Voltage	160 VDC			
Charging Current	1A (1-10A adjustable)			
Battery Operation Warning	Buzzer and Display alert			
Battery Low Protection	Auto Shut o			
Battery Cabinet	Internal	External	Internal	External
GENERAL				
Control Panel	LCD Display and Multiple selection keys			
Operating Temperature	0 C - 40 C			
Noise Level (1 meter)	≤ 50 dBA			
Protection Class	IP 20			
Altitude	1000 m - 4000 m (IEC62040)			
Humidity	95% max.			
Weight kg	48,5	15	58	18
Dimensions (wxdxh) mm	192x470x612			

ON-LINE UNINTERRUPTIBLE POWER SUPPLIES

# N SERIES 10-20 kVA On-Line 3/1

3 PHASES INPUT - 1 PHASE OUTPUT



- Advanced DSP Controlled Technology for High Performance
- True On-Line Double Conversion featuring an IGBT Rectifier
- Pure Sine Wave Output Voltage
- Wide Input Voltage Range (210-475 V AC)
- High Input Power Factor (>98%)
- High Output Power Factor (PF 0.9)
- Protection Against Electromagnetic Interference and RFI
- Digital Panel displaying comprehensive details about Mains, Charging System, Battery Status, and Output Voltage
- Capability to Start from Battery Without Mains
- Quieter Operation with Fan Speed Adjusting According to Load
- Digital Charging System that Operates When Off, Ensuring Extended Battery Life
- Extended Supply Duration with External Battery Pack
- RS 232 Serial Port Communication for Remote Monitoring and Secure Network Shutdown
- Optional SNMP Monitoring Software
- Enhanced Security with Emergency Power Off (EPO) Connection
- Compliance with International Standards
- 2-Year Warranty on Device and Battery
- 10-Year Guarantee on Spare Parts Supply

Experienced Technical and Customer Service Support Available Throughout Germany

## APPLICATIONS

- Transformerless structure
- Latest technology
- 3 Phase Input
- 1 Phase Output
- Energy save
- Clean and stable output voltage
- Overload and short circuit protection
- Remote monitoring
- Adjustable values
- Generator compatibility

## ADVANTAGES

- Transformerless structure
- Latest technology
- 3 Phase Input
- 1 Phase Output
- Energy save
- Clean and stable output voltage
- Overload and short circuit protection
- Remote monitoring
- Adjustable values
- Generator compatibility

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MODEL	NXTR-10KVA	NYTR-15KVA	NZTR-20KVA
POWER (W)	9000 W	13500 W	18000 W
INPUT			
Voltage ve Tolerance	210 - 475 V AC (L + N + PE)		
Power Factor (Full Load)	> 0,99		
Frequency	50 / 60 Hz ± 10Hz		
Protection	Electronic Short Circuit Protection ve Auto Fuses		
OUTPUT			
Power Factor	0,9		
Voltage	220 V AC (L + N + PE)		
Voltage Tolerance	± 1%		
Frequency	50 -60 Hz		
Frequency Tolerance	± 0,05% (With Battery Mode)		
Wave Form	Pure Sine Wave		
Transfer Time	0 ms (AC Mode to Battery Mode)		
THD (100% Lineer Load)	≤ 3%		
THD (100% Non-Linear Load)	≤ 5%		
Crest Factor	3:1		
Overload Protection	100% Continuous		
	105 - 125% Load 1 min.		
	125 - 150% Load 30 s.		
	> 150% 0,5 s.		
Short Circuit Protection	Electronic Short Circuit Protection		
Communication Interface	RS 232 (Optional SNMP - AS400 Relay - RS485)		
BATTERY			
Number of Batteries	16 Pieces		
Charging Voltage	216 VDC		
Discharging Voltage	160 VDC		
Battery Operation Warning	Buzzer and Display alert		
Battery Low Protection	Auto Shut o		
Battery Cabinet	External		
GENERAL			
Control Panel	LCD Display and Multiple selection keys		
Operating Temperature	0 C - 40 C		
Noise Level (1 meter)	< 50 dBA		
Protection Class	IP 20		
Altitude	< 2000 m		
Humidity	95% max.		
Weight kg (Without Battery)	27	35	
Dimensions (wxdxh) mm	248x500x565		

ON-LINE UNINTERRUPTIBLE POWER SUPPLIES

# BTR SERIES 10-120 kVA Blue-Line

BLUE-LINE PRO SERIES / 3 PHASES INPUT - 3 PHASES OUTPUT



- Operates Independently of Input Voltage and Frequency in accordance with VFI-SS-111 Standard
  - DSP Controlled IGBT Rectifier
  - IGBT Inverter
  - Battery Charging System
  - Wide Input Voltage Range
  - High Input Power Factor (>99%)
  - Up to 94% Efficiency in On-Line Mode
  - Up to 98% Efficiency in Eco-Mode
  - True Full Sine Output Waveform with Low Harmonic Distortion
  - Both Static and Manual Bypass Options
  - Electromagnetic and RFI Protection
  - Digital Panel that provides comprehensive information on Mains, Charging System, Battery Status, and Output Voltage
  - Intelligent Charging System designed to extend battery life
  - Communication through RS 232 Serial Port for remote monitoring and secure shutdown in networked environments, along with Smart Relay Contact Outputs
  - Smart Fan with Speed Control for quiet operation
- Customizable to meet specific Input/Output requirements

## APPLICATIONS

- IT Centers
- Factories
- Medical Devices
- Emergency Systems (Alarm)
- Communication Devices
- Server Rooms
- Industrial Applications
- Personal Computers
- Small Computer Network
- Network Systems

## ADVANTAGES

- Latest Technology
- Energy save
- Clean and Constant Output Voltage
- Overload and Short Circuit Protection
- Remote Monitoring
- Adjustable Values
- Generator Compatibility

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MODEL	BTR-10	BTR-20	BTR-30	BTR-40	BTR-45	BTR-60	BTR-80	BTR-100	BTR-120
POWER	10 kVA	20 kVA	30 kVA	40 kVA	45 kVA	60 kVA	80 kVA	100 kVA	120 kVA
INPUT									
Voltage	380 / 400 / 415 VAC 3 Phases + N								
Voltage Tolerance	± 5% - 20% (Adjustable)								
Power Factor (Full Load)	≥0,99								
Frequency	50 /60 Hz ± 5%								
THDi	< 4%								
BYPASS									
Dual Input Connection	Standard								
Voltage	380 / 400 / 415 VAC 3 Faz + N								
Voltage Tolerance	± 10% (Adjustable)								
Frequency	50/60 Hz								
Frequency Tolerance	±10% (Adjustable)								
OUTPUT									
Voltage	380 / 400 / 415 VAC 3 Phases + N								
Voltage Tolerance	± 1% (at Static Load), According to VFI-SS-111 At Dynamic load								
Frequency	50Hz / 60Hz (Optional)								
Frequency Tolerance	± 0,1% (Without Power Grid), ±4% (Synchron With Power Grid, Adjustable ±5%)								
Power Factor	0,8 (Optional 0,9 / 1)								
THDv	< 3% Linear Load, < %5 Nonlinear Load (IEC/EN 62040-3)								
Crest Factor	3:1								
OVERLOAD CAPACITY									
100 - 110%	Normal mode continuously								
110 - 125%	10 min.								
125 - 150%	1 min.								
>150%	Bypass Mode								
BATTERY									
Number of Batteries	60 pieces (+ 405VDC / - 405VDC)								
Battery Cabinet	Internal					External			
Battery Protection	Deep Discharge Protection								
Battery Test	Auto / Manual								
EFFECIENCY									
Online Mode (Full Load)	> 92%						> 93%		
Eco-Mode (Full Load)	> 98%								
GENERAL									
Topology	True Online - Double Conversion, IGBT Rectifier & Inverter								
Control Technology	3 pieces DSP processor, SPWM								
Indicators	Graphic LCD Panel, Mimic diagram, Control keys, Warning LED Error indicators								
OPTIONS									
Parallel Operation	Up to 6 Units								
Communication	SNMP, RS232, RS485, MODBUS								
Remote Monitoring	SNMP view, UPSMon, Remote Panel								
Dry Contact Relay Outputs	Programmable 5 Dry Contacts								
Custom Inputs	Generator, Battery temperature control, Remote Emergency Powero (EPO)								
OPERATION CONDITIONS									
Operating Temperature	0 C - 40 C								
Humidity	0%-95% (Non-condensing)								
Altitude	≤2000 m.								
Noise Level (1 meter)	< 55 dB(A)			< 60 dB(A)				< 65 dB(A)	
PHYSICAL CONDITIONS									
Dimensions (wxdxh) mm	350x795x1110			500x806x1213				550x800x1335	
Weight kg (Without Battery)	82	85	90	100	110	165	172	290	315
Protection Class	IP 20								

ON-LINE UNINTERRUPTIBLE POWER SUPPLIES

# BTR SERIES 160-800 kVA Blue-Line

BLUE-LINE PRO SERIES / 3 PHASES INPUT - 3 PHASES OUTPUT



- Operates independently of input voltage and frequency, adhering to the VFI-SS-111 standard
  - DSP controlled IGBT rectifier
  - IGBT inverter
  - Battery charging system
  - Wide input voltage range
  - High input power factor (>99%)
  - Up to 94% efficiency in on-line mode
  - Up to 98% efficiency in eco-mode
  - True full sine output waveform with low harmonic distortion
  - Static and manual bypass options
  - Protection against electromagnetic interference and RFI
  - Digital panel displays detailed information on mains, charging system, battery status, and output voltage
  - Intelligent charging system to extend battery life
  - Remote monitoring and safe shutdown in networks via RS 232 serial port communication, along with smart relay contact outputs
  - Smart fan with speed control for quiet operation
- Custom designed to meet specific input/output requirements

## APPLICATIONS

- IT Centers
- Factories
- Medical Devices
- Emergency Systems (Alarm)
- Communication Devices
- Server Rooms
- Industrial Applications
- Personal Computers
- Small Computer Network
- Network Systems

## ADVANTAGES

- Latest Technology
- Energy save
- Clean and Constant Output Voltage
- Overload and Short Circuit Protection
- Remote Monitoring
- Adjustable Values
- Generator Compatibility



**VOLTGUARD**  
UPS





MODEL	BTR-160	BTR-200	BTR-250	BTR-300	BTR-400	BTR-500	BTR-600	BTR-800
POWER	160	200	250	300	400	500	600	800
INPUT								
Voltage	380 / 400 / 415 VAC 3 Phases + N							
Voltage Tolerance	± 5% - 20% (Adjustable)							
Power Factor (Full Load)	≥0,99							
Frequency	50 /60 Hz ± 10%							
THDi	< 4%							
BYPASS								
Dual Input Connection	Standard							
Voltage	380 / 400 / 415 VAC 3 Faz + N							
Voltage Tolerance	± 10% (Adjustable)							
Frequency	50/60 Hz							
Frequency Tolerance	±10% (Adjustable)							
OUTPUT								
Voltage	380 / 400 / 415 VAC 3 Phases + N							
Voltage Tolerance	± 1% (In Static Load), According to VFI-SS-111 At Dynamic load							
Frequency	50Hz / 60Hz (Optional)							
Frequency Tolerance	± 0,1% (Without Power Grid), ±4% (Synchron With Power Grid, Adjustable ±5%)							
Power Factor	0,8 (Optional 0,9 / 1)							
THDv	< 3% Linear Load, < %5 Nonlinear Load (IEC/EN 62040-3)							
Crest Factor	3:1							
OVERLOAD CAPACITY								
100 - 110%	Normal mode continuously							
110 - 125%	10 min.							
125 - 150%	1 min.							
>150%	Bypass Mode							
BATTERY								
Number of Batteries	60 pieces (+ 405VDC / - 405VDC)							
Battery Cabinet	External							
Battery Protection	Deep Discharge Protection							
Battery Test	Auto / Manual							
EFFECIENCY								
Online Mode (Full Load)	>93%		>94%					
Eco-Mode (Full Load)	>98%							
GENERAL								
Topology	True Online - Double Conversion, IGBT Rectifier & Inverter							
Control Technology	3 pieces DSP processor, SPWM							
Indicators	Graphic LCD Panel, Mimic diagram, Control keys, Warning LED Error indicators							
OPTIONS								
Parallel Operation	Up to 6 Units							
Communication	SNMP, RS232, RS485, MODBUS							
Remote Monitoring	SNMP view, UPSMon, Remote Panel							
Dry Contact Relay Outputs	Programmable 5 Dry Contacts							
Custom Inputs	Generator, Battery temperature control, Remote Emergency Powero (EPO)							
OPERATION CONDITIONS								
Operating Temperature	0 C - 40 C							
Humidity	0%-95% (Non-condensing)							
Altitude	≤2000 m.							
Noise Level (1 meter)	< 70 dB(A)		< 75 dB(A)					
PHYSICAL CONDITIONS								
Dimensions (wxdxh) mm	685x1007x1755			1600x868x1800			3216x868x1800	
Weight kg (Without Battery)	400	500	600	850	950	1200	1400	2100
Protection Class	IP 20							



# Seize The Moment!

Intelligent solutions of German Ups R&D engineers for dozens of sectors such as production, healthcare, retail, telecommunication and transportation; transforms it into efficient, permanent and flawless performance processes... Productivity is seizing the moment.



# VOLTGUARD UPS







## 3 PHASE STATIC REGULATOR



- Microprocessor-Controlled Structure Utilizing Semiconductor Technology
- Features for Voltage Correction, Protection, and Management
- Wide Input Voltage Range (285 - 430 V AC)
- High Efficiency of Up to 98% with Full Sine Wave Output
- Output Voltage Sensitivity of 1-3% with 500V/sec Correction Speed
- 2x16 LCD Display
- Manual Bypass Option
- Optional Automatic Bypass Feature
- Custom Production Tailored to Requirements and Input/Output Values
- Protection Against Electromagnetic Interference and RFI
- Compliance with International Standards
- Design Includes a Lid That Opens from Three Sides for Quick Service
- 2-Year Warranty on the Device
- 10-Year Guarantee on Spare Parts Supply

Experienced Technical and Customer Service Support  
Available Throughout Germany

### APPLICATIONS

- IT Centers
- Factories
- Medical Devices
- Emergency Systems (Alarm)
- Communication Devices
- Server and Server Rooms
- Industrial Applications
- Personal Computers
- Small Computer Network
- Network systems

### ADVANTAGES

- No Mechanical Parts
- Latest technology
- Economical use
- Clean and stable output voltage
- Over-temperature, load and short-circuit protection
- Wheeled and takes up little space
- Remote management (Optional)
- Adjustable values



MODEL	RST-22	RST-30	RST-45	RST-60	RST-75	RST-100
POWER	22,5 kVA	30 kVA	45 kVA	60 kVA	75 kVA	100 kVA
INPUT						
Voltage	3x380, 3x400, 3x415 VAC, 3 Phases + N					
Input Correction Ranges (Optional)	1- 285 - 430 VAC					
	2- 300 - 430 VAC					
	3- 110 - 500 V AC					
	4- Custom Ranges					
Current (A)	27A	36A	54.5A	73A	91A	121A
Frequency	50 Hz ±10%					
OUTPUT						
Voltage	3x380, 3x400, 3x415 VAC, 3 Phases + N					
Voltage Tolerance	2,5% Standard (Adjustable)					
Current (A)	27A	36A	54.5A	73A	91A	121A
Frequency	50 Hz ±10%					
INDICATOR						
Type	2 x 16 Alphanumeric LCD Panel (Backlight)					
Panel	Touch Buttons					
Measurements	R,S,T Input Voltage, U,V,W Output Voltage, U,V,W, Frequency					
LCD Alarms	System Normal, Incorrect Input, High Output, Low Output, Thyristor Failure, Phase Failure					
LEDs	Input: Green - Output: Green - Error: Red - Normal: Green					
Language Options	Germany or English					
PROTECTIONS						
Output Voltage	Low: 320V High: 420V (Adjustable from LCD Panel)					
Over Load	Electronic Protection with Fuse					
Thyristor Failure	Output is cut automatically. Supplied on the LCD					
Over Temperature	Output is cut o after 10 seconds of warning on the LCD Panel.					
By-Pass	Manual (Auto Bypass Optional)					
Noise Filtering	Surge Suppressor, EMI / RFI Filter Options					
GENERAL						
Efficiency (Full Load)	≥ 97%					
THD (100% Lineer Load)	< 0.3%					
Correction Speed	5.000 V/sec					
Noise Level	< 45 dBA, from 1 meter					
Operating Temperature	0°C ~ 40°C, max. 90% (concentrated)					
Storage Temperature	-20°C ~ +70°C					
Protection Class	X Type: IP20 (Standart) Y Type : IP23 Z Type: IP54					
Colour	RAL 7035					
Cooling						
Dimensions (wxdxh) mm	330x740x830			400x900x890		
Weight	101 kg	124 kg	143 kg	182 kg	214 kg	242 kg



## 3 PHASE STATIC REGULATOR

MODEL	RST-120	RST-150	RST-200	RST-250	RST-300	RST-400
POWER	120 kVA	150 kVA	200 kVA	250 kVA	300 kVA	400 kVA
INPUT						
Voltage	3x380, 3x400, 3x415 VAC, 3 Phases + N					
Input Correction Ranges (Optional)	1- 285 - 430 VAC					
	2- 300 - 430 VAC					
	3- 110 - 500 V AC					
	4- Custom Ranges					
Current (A)	145.5A	182A	242.5A	303A	363,5A	485A
Frequency	50 Hz ±10%					
OUTPUT						
Voltage	3x380, 3x400, 3x415 VAC, 3 Phases + N					
Voltage Tolerance	2,5% Standard (Adjustable)					
Current (A)	145.5A	182A	242.5A	303A	363,5A	485A
Frequency	50 Hz ±10%					
INDICATOR						
Type	2 x 16 Alphanumeric LCD Panel (Backlight)					
Panel	Touch Buttons					
Measurements	R,S,T Input Voltage, U,V,W Output Voltage, U,V,W, Frequency					
LCD Alarms	System Normal, Incorrect Input, High Output, Low Output, Thyristor Failure, Phase Failure					
LEDs	Input: Green - Output: Green - Error: Red - Normal: Green					
Language Options	Germany or English					
PROTECTIONS						
Output Voltage	Low: 320V High: 420V (Adjustable from LCD Panel)					
Over Load	Electronic Protection with Fuse					
Thyristor Failure	Output is cut automatically. Supplied on the LCD					
Over Temperature	Output is cut o after 10 seconds of warning on the LCD Panel.					
By-Pass	Manual (Auto Bypass Optional)					
Noise Filtering	Surge Suppressor, EMI / RFI Filter Options					
GENERAL						
Efficiency (Full Load)	≥ 97%					
THD (100% Lineer Load)	< 0.3%					
Correction Speed	5.000 V/sec					
Noise Level	< 45 dBA, from 1 meter					
Operating Temperature	0°C ~ 40°C, max. 90% (concentrated)					
Storage Temperature	-20°C ~ +70°C					
Protection Class	X Type: IP20 (Standart) Y Type : IP23 Z Type: IP54					
Colour	RAL 7035					
Cooling	Cooling with Fan					
Dimensions (wxdxh) mm	450x820x1280		1000x700x1600			1400x500x1700
Weight	290 kg	340 kg	600 kg	700 kg	800 kg	1000 kg







MODEL	RST-500	RST-600	RST-800	RST-1000	RST-1250	RST-1600	RST-2000
POWER	500 kVA	600 kVA	800 kVA	1000 kVA	1250 kVA	1600 kVA	2000 kVA
INPUT							
Voltage	3x380, 3x400, 3x415 VAC, 3 Faz + Nötr						
Input Correction Ranges (Optional)	1- 285 - 430 VAC						
	2- 300 - 430 VAC						
	3- 110 - 500 V AC						
	4- Custom Ranges						
Current (A)	606A	727A	970A	1212A	1515A	1939A	2424A
Frequency	50 Hz ±10%						
OUTPUT							
Voltage	3x380, 3x400, 3x415 VAC, 3 Faz + Nötr						
Voltage Tolerance	2,5% Standart (Değiştirilebilir)						
Current (A)	606A	727A	970A	1212A	1515A	1939A	2424A
Frequency	50 Hz ±%10						
INDICATOR							
Type	2 x 16 Alphanumeric LCD Panel (Backlight)						
Panel	Touch Buttons						
Measurements	R,S,T Input Voltage, U,V,W Output Voltage, U,V,W, Frequency						
LCD Alarms	System Normal, Incorrect Input, High Output, Low Output, Thyristor Failure, Phase Failure						
LEDs	Input: Green - Output: Green - Error: Red - Normal: Green						
Language Options	Germany or English						
PROTECTIONS							
Output Voltage	Low: 320V High: 420V (Adjustable from LCD Panel)						
Over Load	Electronic Protection with Fuse						
Thyristor Failure	Output is cut automatically. Supplied on the LCD						
Over Temperature	Output is cut o after 10 seconds of warning on the LCD Panel.						
By-Pass	Manual (Auto Bypass Optional)						
Noise Filtering	Surge Suppressor, EMI / RFI Filter Options						
GENERAL							
Efficiency (Full Load)	≥ 97%						
THD (100% Lineer Load)	< 0.3%						
Correction Speed	5.000 V/sec						
Noise Level	< 45 dBA, from 1 meter						
Operating Temperature	0°C ~ 40°C, max. %90 (concentrated)						
Storage Temperature	-20°C ~ +70°C						
Protection Class	X Type: IP20 (Standard) Y Type : IP23 Z Type: IP54						
Colour	RAL 7035						
Cooling	Cooling with Fan						
Dimensions (wxdxh) mm	1400x500x1700		2600x1000x1800			3000x1000x1800	
Weight	1300 kg	1500 kg	1700 kg	2100 kg	2300 kg	2600 kg	3200 kg



# VOLTGUARD UPS

UNINTERRUPTED POWER SUPPLY AND VOLTAGE REGULATOR





# Seize The Moment!

Step into your home in peace with the Volt-G Ups uninterruptible power supplies, where you are in uninterrupted connection with your loved ones, the energy of your living space is not cut off and users most preferred brand...

Happiness is seizing the moment.



**VOLTGUARD**  
**UPS**



Info@voltguardups.com  
Großpösnaer Str. 14, 04288 Leipzig, Germany

[www.Voltguardups.com](http://www.Voltguardups.com)