

ON-LINE UNINTERRUPTIBLE POWER SUPPLIES

BTR SERIES 10-120 kVA Blue-Line

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



- Operation Independent of Input Voltage and Frequency according to 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% High-Efficiency On-Line
- Up to 98% High-Efficiency in Eco-Mode
- True Full Sine Output Waveform, Low Harmonic Distortion
- Static and Manual By-Pass
- Electromagnetic and RFI Protection
- Digital Panel provides detailed information about Mains, Charging System, Battery Status, and Output Voltage
- Intelligent Charging System that ensures the long life of the batteries
- Communication via RS 232 Serial Port for remote monitoring and safe shutdown in networks, Smart Relay Contact Outputs
- Smart Fan; Speed Control for silent operation
- Custom made; according to needs, Input / Output values

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

GERMENUPS®
ALWAYS CONNECTED

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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								
EFFICIENCY									
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 Poweroff (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								