

ON-LINE UNINTERRUPTIBLE POWER SUPPLIES

BTR SERIES 160-800 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

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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							
EFFEICIENCY								
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 Poweroff (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							