



BRITIPower

UPS Range

BP Tower Model 01 Online Transformerless UPS

- **Power range:** 10~40kVA (3-Level PF: 0.9)
- **Mode:** 3 phase input and 3 phase output
- **Module:** 10~40kVA



High Power Density and Redundancy

- Compact Design: Space-saving with efficient performance.
- N+X Parallel Redundancy: Supports up to 4 parallel units for reliability and uninterrupted power..

Advanced Input and Battery Flexibility

- Double Conversion Technology: DSP-controlled, input current harmonic <3% for stable power.
- Wide Input Range: 208-478Vac voltage, 40-70Hz frequency.
- Flexible Battery Configuration:
 - 10-30kVA: 16/18/20 batteries, optional 30-50.
 - 40kVA: 30-50 batteries for extended runtime.
- High Charging Capacity: Up to 20A (adjustable).
- Dual Input Source: Optional for standard units.

User Interface and Energy Efficiency

- Display Options: 2.4-inch TFT LCD, optional 7-inch LCD.
- Generator Compatible: Seamless backup integration.
- Energy-Saving Features: ECO mode, intelligent fan speed control.
- Startup Self-Testing: Auto system reliability check..

Robust Load Support and Protection

- Unbalanced Load Support: Handles 100% unbalanced loads efficiently.
- Comprehensive Protection: Protects against short circuits, overloads, overheating, battery overcharge/discharge, low output voltage, and fan faults.

Versatile Communication Interfaces

- Multiple Interfaces: USB, RS232, RS485, Parallel port, and Dry contact for flexible connectivity.
- Optional Add-ons: Includes SNMP cards, dry contact cards, and battery temperature sensors for advanced monitoring and management.



To Order

Ordering information on page 3.

Technical Specification

MODEL		BPT1-10	BPT1-15	BPT1-20	BPT1-30	BPT1-40
Capacity (VAJW)		10k/10k	15k/15k	20k/20k	30k/30k	40k/40k
INPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Operating Voltage Range (Vac)		305~478 (Full load); 208~478 (50% load)				
Power Factor		0.99				
Harmonic Distortion (THDi)		S3% Linear load				
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)				
Bypass Frequency Range (Hz)		50/60±10%				
OUTPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Voltage Regulation		±1%				
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: 50/60 (±0.1%)				
Crest Factor		3:1				
Harmonic Distortion (THDv)		S2% Linear load; S5% Non linear load				
Overload	AC mode	S110% 60min, S125% 10min, S150% 1min, >150% immediately turn to bypass				
	Bat.mode	S110% 10min, S125% 1min, S150% 5s, >150% immediately shut down				
EFFICIENCY						
AC Mode		Up to 93.5%	Up to 94.5%		Up to 95.2%	
ECO Mode		Up to 98.0%	Up to 98.2%		Up to 98.6%	
BATTERY						
Battery Type		VRLA (Lead acid maintenance free battery)				
Battery Voltage (Vdc)	Chassis 1: ±120 (20pcs 9Ah)(20pcs 7Ah, 2x20pcs 7/9Ah, 3x20pcs 7/9Ah optional)		±120 (2x20pcs 9Ah) (2x20pcs 7Ah, 3x20pcs 7/9Ah optional)		±120 (3x20pcs 9Ah) (3x20pcs 7Ah optional)	±180 (2x30pcs 9Ah) (2x30pcs 7Ah optional)
	Chassis 2: ±96Vdc (16pcs 9Ah)					
Charging Current (Max.)(A)		1.35 (2.7 Optional)	2.7		4.05	2.7
PHYSICAL						
Dimension	Chassis 1: 250x900x868		250x900x868			
WxDxH (mm)	Chassis 2: 250x645x715					
Weight (kg)	Chassis 1: 129 (20pcs 9M)		186 (2x20pcs 9Ah)	187 (2x20pcs 9Ah)	236 (3x20pcs 9Ah)	239 (2x30pcs 9Ah)
	Chassis 2: 80 (16pcs 9Ah)					
STANDARDS						
Safety		IEC/EN 62040-1, IEC/EN 62477-1				
EMC		IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-3, IEC 61000-4-5, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)				

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To Order

To place an order, use the contact details below.

Technical Specification

MODEL		BPTI-10	BPTI-15	BPTI-20	BPTI-30	BPTI-40
Capacity (VA/JW)		10k/10k	15k/15k	20k/20k	30k/30k	40k/40k
INPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Operating Voltage Range (Vac)		305-478 (Full load); 208-478 (50% load)				
Power Factor		0.99				
Harmonic Distortion (THDi)		S3% Linear load				
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)				
Bypass Frequency Range (Hz)		50/60±10%				
OUTPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Voltage Regulation		±1%				
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: 50/60 (±0.1%)				
Crest Factor		3:1				
Harmonic Distortion (THDv)		S2% Linear load; S5% Non linear load				
Overload	AC mode	S110% 60min, S125% 10min, S150% 1min, >150% immediately turn to bypass				
	Bat.mode	S110% 10min, S:125% 1min, S150% 5s, >150% immediately shut down				
EFFICIENCY						
AC Mode		Up to 93.5%	Up to 94.5%		Up to 95.2%	
ECO Mode		Up to 98.0%	Up to 98.2%		Up to 98.6%	
ENVIRONMENTAL						
Battery Type		VRLA (Lead acid maintenance free battery)				
Battery Voltage (Vdc)		10-30kVA: ±9%/108/120; battery quantity (16-20pcs, 16pcs default, 20pcs no power derating; 18pcs output power factor 0.8/0.9; 16pcs output power factor 0.7/0.8)				40kVA: ±180-300 (30-50pcs)
		±180-300 (30-50pcs)				
Charging Current (Max.)(A)		14	16	18	20	20
PHYSICAL						
Operating Temperature (°C)		0-40				
Storage Temperature (°C)		-25-55 (No battery)				
Humidity Range		0-95% (Non condensing)				
Altitude (m)		<1000, derating required when>1000				
Noise Level (dB)		<55		<58	<61	<64
PHYSICAL						
Dimension WxDxH (mm)		250x580x655				
Weight (kg)		35	39	40	43	46
STANDARDS						
Safety		IEC/EN 62040-1, IEC/EN 62477-1				
EMC		IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)				

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BT 10-40kVA Battery Pack Specification

Model	MP31 BT40120N	YDC3320 BT80120N	YDC3330 BT80120N	YDC3340 BT60180N	YDC3340 BT80240N
Battery System					
Battery Type	VRLA (Lead acid maintenance free battery)				
Typical Battery Recharge Time (hours)	6-8 (To 90% of full capacity)				
Typical Battery Life (years)	3-5, depend on discharging cycle and ambient temperature				
System Voltage (Vdc)	±120			±180	±240
Battery Quantity (pcs)	2x20	4x20		2x30	2x40
Capacity (Ah)	7/9				
Dimension WxDxH(mm)	250x619x616 (With caster)	250x900x868 (With caster)			
Weight (kg)	122/134	244/265		200/215	244/265
ENVIRONMENTAL					
Operating Environment (°C)	0-40				
Humidity Range	0-95% (Non condensing)				
Altitude	<1000, derating required when >1000				
Noise Level (dB)	<40				
STANDARDS					
Safety	IEC/EN 62040-1, IEC/EN 62477-1				

* 3+1 means 1 power modules are used as redundancy module

* This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

1. Specifications are subject to change without prior notice

2.Data above are typical values for reference only, not as a basis for engineering design

Battery Run Time

BP (BP 30KVA standard type)	Battery Voltage	Backup time(min) Internal Battery	With 1*Battery Cabinet (40 PCs) (min)	With 2*Battery Cabinet (40Pcs) (min)
BP 30kVA(27KW)	60PCS	7AH	3.5 min	8 min
		9AH	4.5 min	10 min
		9AH high rate	5 min	11 min

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