

BOP series

1 Phase In/1 Phase Out Tower Online UPS



Capacity

2kVA ~ 30kVA

Parallel capability to 1000kVA

Feature

- True double conversion
- Output isolation transformer for complete isolation
- Fully digitalised control
- DC start (cold start), easy to operate
- Friendly man-machine interface, colour LCD touch screen
- Perfect protection function
- Equipped with RPA (redundant parallel connection) function
- Advanced synchronous equalisation control technology
- Optional Wi-Fi function, intelligent monitoring of UPS power supply equipment by mobile phone or tablet PC.

Application

With excellent grid environment adaptability, it is widely used in rail transit, industry, oil field, public security, troops, communications, radar stations, airports, radio and television, banks, securities, medical systems, electric power, chemical industry, ceramics and other industries.

Introduction

BOP series are 1 Phase In/1 Phase Out industrial frequency online UPS, with capacity from 2kVA to 30kVA, adopting full digital control technology, with perfect detection and protection functions, with output isolation transformer, and each parameter index and reliability are at the first-class level; RS232 interface is equipped as standard, and SNMP network adapter card or RS485 card is optional, so that centralised and remote monitoring and control of the UPS can be conveniently realised. It can conveniently achieve centralised monitoring and remote monitoring of UPS. With RPA (redundant parallel connection) function, 32 UPS can be realised in parallel.

Technical Specification

| Model | BOP 2KL | BOP 3KL | BOP 5KL | BOP 6KL | BOP 7.5KL | BOP 10KL | BOP 15KL | BOP 20KL | BOP 30KL |
|---|---|-----------------|-----------------|-----------------|---|-----------------|-----------------|-----------------|-----------------|
| Capacity (kW) | 1.6 | 2.4 | 4 | 4.8 | 6 | 8 | 12 | 16 | 24 |
| Input | | | | | | | | | |
| Input voltage range (V a.c) | 220±25%; 110±25% | | | | | | | | |
| Frequency range (Hz) | 50/60±5% (10% optional) | | | | | | | | |
| Power factor | ≥0.9 | | | | | | | | |
| Output | | | | | | | | | |
| Voltage & regulation (V a.c) | 220±1% | | | | | | | | |
| Frequency range (Hz) | Synchronous mode, 50/60±0.5%; Inverter mode, 50/60±0.1% | | | | | | | | |
| Harmonic distortion (THDV%) | Pure sinewave, ≤2.5% THD (linear load); ≤3% THD (non-linear load) | | | | | | | | |
| Parallel load current imbalance | <5% | | | | | | | | |
| Overload capability | overload 120% 10min; overload 150% 60S | | | | | | | | |
| Current crest ratio | 5:1 | | | | | | | | |
| Battery | | | | | | | | | |
| DC voltage (V d.c) | 192 | | | | | | | | |
| Type | 2V/6V/12V Sealed maintenance-free battery | | | | | | | | |
| Configuration | 16pcs/12V (15 ~ 20pcs adjustable) | | | | | | | | |
| Type (Internal battery) | Standard unit without "L" has built-in 12V/7Ah sealed maintenance-free battery. | | | | / | / | / | / | / |
| Backup time (min) | 13 | 8 | 6 | 5 | External (Backup time determined by battery capacity) | | | | |
| Recharge time | 10 hours recover to 100% capacity for standard machines | | | | | | | | |
| System | | | | | | | | | |
| Transfer time (mS) | AC↔Batt.: 0; Inverter↔Bypass: ≤2 | | | | | | | | |
| IP protection | IP20 (Customizable) | | | | | | | | |
| Efficiency | ≥85%@full load | | | | | | | | |
| Noise (dB) | <50@1m | <50@1m | <53@1m | <53@1m | <55@1m | <55@1m | <55@1m | <55@1m | <55@1m |
| Physical | | | | | | | | | |
| Net weight (with batt. /withour batt.) (kg) | 80/45 | 84/50 | 95/60 | 100/65 | 75 | 80 | 135 | 145 | 175 |
| Gross weight (with batt. /withour batt.) (kg) | 90/55 | 94/60 | 105/70 | 110/75 | 85 | 90 | 168 | 178 | 208 |
| Dimension [W x D x H] (mm) | 260 x 620 x 625 | 260 x 620 x 625 | 260 x 620 x 625 | 260 x 620 x 625 | 260 x 620 x 625 | 260 x 620 x 625 | 410 x 750 x 940 | 410 x 750 x 940 | 410 x 750 x 940 |
| Environment | | | | | | | | | |
| Operating temperature (°C) | 0~45 (Customizable for special circumstances) | | | | | | | | |
| Operating humidity | 0-95% (non-condensing) | | | | | | | | |
| Altitude (m) | ≤1500 | | | | | | | | |

- Special specification models can be customised according to customer requirements.
- With "L" for long-run machine with battery external..
- Built-in intelligent monitoring function.
- Product specifications are subject to change without further notice.

BOT series

3 Phase In/1 Phase Out Tower Online UPS



Capacity

7.5kVA ~ 50kVA

Parallel capability to 1000kVA

Feature

- True double conversion
- Output isolation transformer for complete isolation
- Fully digitalised control
- DC start (cold start), easy to operate
- Friendly man-machine interface, colour LCD touch screen
- Perfect protection function
- Equipped with RPA (redundant parallel connection) function
- Advanced synchronous equalisation control technology
- Optional Wi-Fi function, intelligent monitoring of UPS power supply equipment by mobile phone or tablet PC.

Application

With excellent grid environment adaptability, it is widely used in rail transportation, data centres, oil fields, troops, communications, banks and securities, transportation, electric power, industry and other industries.

Introduction

BOT series are 3 Phase In/1 Phase Out industrial frequency online UPS, capacity from 7.5kVA to 50kVA, the application of full digital control technology, the power device selection of low-loss high-power IGBT, Overload ability, with perfect detection, protection functions; the application of Chinese and English large-screen LCD touch screen, the standard RS232 interface, can be optional SNMP network adapter card or RS485 card, etc., to achieve centralised monitoring and control of the UPS and RS485 card, etc., to achieve the UPS. RS485 card, etc., to achieve centralised monitoring and remote monitoring of the UPS; with RPA (redundant parallel connection) function, can achieve 32 UPS parallel.

Technical Specification

| Model | BOT7.5KL | BOT10KL | BOT15KL | BOT20KL | BOT30KL | BOT40KL | BOT50KL |
|---------------------------------|---|---------|---------|---------|---------|---------|--------------|
| Capacity (kW) | 6 | 8 | 12 | 16 | 24 | 32 | 40 |
| Input | | | | | | | |
| Input voltage range (V a.c) | 380±25% | | | | | | |
| Frequency range (Hz) | 50/60±5% (±10% optional) | | | | | | |
| Power factor | ≥0.9 | | | | | | |
| Output | | | | | | | |
| Voltage & regulation (V a.c) | 220±1% | | | | | | |
| Frequency range (Hz) | Synchronous mode, 50/60±0.5; Inverter mode, 50/60±0.1 | | | | | | |
| Harmonic distortion (THDV%) | Pure sinewave, ≤2.5% THD (linear load); ≤3% THD (non-linear load) | | | | | | |
| Parallel load current imbalance | <5% | | | | | | |
| Overload capability | overload 125% 10min; overload 150% 60S | | | | | | |
| Current crest ratio | 5:1 | | | | | | |
| Battery | | | | | | | |
| DC voltage (V d.c) | 384 | | | | | | |
| Type | 2V/6V/12V Sealed maintenance-free battery | | | | | | |
| Configuration | External, 32pcs/12V (28 ~ 32pcs adjustable) | | | | | | |
| Backup time (min) | Backup time determined by battery capacity | | | | | | |
| System | | | | | | | |
| Transfer time (mS) | AC↔Batt.: 0; Inverter↔Bypass: ≤2 | | | | | | |
| IP protection | IP20 (Customizable) | | | | | | |
| Efficiency | ≥85%@full load | | | | | | |
| Noise (dB) | <53@1m | <53@1m | <55@1m | <55@1m | <55@1m | <58@1m | <58@1m |
| Physical | | | | | | | |
| Net weight (kg) | 110 | 115 | 125 | 135 | 165 | 194 | - |
| Gross weight (kg) | 143 | 148 | 158 | 168 | 198 | 234 | - |
| Dimension [W x D x H] (mm) | 410 x 750 x 940 | | | | | | Customizable |
| Environment | | | | | | | |
| Operating temperature (°C) | 0~45 (Customizable for special circumstances) | | | | | | |
| Operating humidity | 0-95% (non-condensing) | | | | | | |
| Altitude (m) | ≤1500 | | | | | | |

- Special specification models can be customised according to customer requirements.
- With "L" for long-run machine with battery external.
- Built-in intelligent monitoring function.
- Product specifications are subject to change without further notice.

BOD-B series

3 Phase In/3 Phase Out Tower Industrial
Intelligent Parallel On-grid Online UPS



Capacity

6 Pulse 6k ~ 60kVA
Parallel capability to 2000kVA

Feature

- True double conversion
- Output isolation transformer for complete isolation
- Fully digitalised control with dual-core DSP
- IGBT+SVPWM (space vector modulation) technology.
- Apply advanced synchronous equalisation control and CAN bus parallel communication
- Industrial powerful high-speed centrifugal fan cooling
- Perfect protection function
- 6-pulse rectification
- GCI parallel operation function
- Friendly man-machine interface, colour LCD touch screen
- Installation mode: floor-standing, the bottom contains directional wheels (can be disassembled)
- Optional Wi-Fi function, with mobile phones or tablet PCs on the UPS power supply equipment for intelligent monitoring man-machine interface using LCD touch screen

Application

It is widely used in rail transportation, data centres, oil fields, public security, communications, radar stations, electric power, heavy industry, airports, radio and TV broadcasting, banks, securities and medical systems.

Introduction

BOD-B series are a new self-developed intelligent triple-input/triple-output double-conversion online UPS with high reliability and high cost performance, and owns a number of related patents, with capacity from 6kVA to 60kVA. the main controller of this series of UPS is the most advanced DSP, and the power device adopts the low-loss high-power IGBT, and applies the Space Vector Modulation (SVPWM) technology, which has perfect detection and protection functions, and the technical indexes are among the best. Perfect detection and protection functions, each technical index is at the first-class level, can be run alone or in parallel; optimized structural design and heat dissipation design, compact structure, high efficiency and energy saving; standard RS232/485/422 interface and RJ-45 interface, optional Wi-Fi function, with mobile phones or tablet PCs to achieve intelligent monitoring of the UPS; intelligent management of the battery, optional wireless intelligent monitoring module. Wireless intelligent monitoring module.

Technical Specification

| Model | BOD6KL-B | BOD10KL-B | BOD15KL-B | BOD20KL-B | BOD30KL-B | BOD40KL-B | BOD60KL-B |
|--------------------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| Capacity (kW) | 4.8 | 8 | 12 | 16 | 24 | 32 | 48 |
| Input | | | | | | | |
| Input voltage range (V a.c) | 380±25% | | | | | | |
| Frequency range (Hz) | ±5% | | | | | | |
| Power factor | ≥0.95 | | | | | | |
| Output | | | | | | | |
| Voltage & regulation (V a.c) | 380±1% | | | | | | |
| Voltage phase deviation | 120°±1° | | | | | | |
| Voltage unbalance | balanced load < 1% ; 50%unbalanced load < 3% ; 100%unbalanced load < 5% | | | | | | |
| Harmonic distortion (THDV%) | Pure sinewave, ≤2.5% THD (linear load); ≤3% THD (non-linear load) | | | | | | |
| Overload capability | overload 125% 10min; overload 150% 60S | | | | | | |
| Current crest ratio | 3:1 | | | | | | |
| Battery | | | | | | | |
| DC voltage (V d.c) | 384 (Customizable-192V d.c, 240V d.c, 280V d.c, 480V d.c, 576V d.c and other voltage) | | | | | | |
| Type | 2V/6V/12V Sealed maintenance-free battery | | | | | | |
| Configuration | 32pcs/12V (28-34pcs adjustable) | | | | | | |
| Backup time | Backup time determined by battery capacity | | | | | | |
| System | | | | | | | |
| Voltage transient recovery time (mS) | <10 | | | | | | |
| Transfer time (mS) | AC↔Batt.: 0; Inverter↔Bypass: ≤2 | | | | | | |
| IP protection | IP30 (Customizable) | | | | | | |
| Efficiency | ≥90% (Inverter full load), ≥97% (ECO mode) | | | | | | |
| Noise (dB) | <55@1m | | | | | | |
| Physical | | | | | | | |
| Net weight (kg) | 125 | 130 | 165 | 180 | 235 | 255 | 280 |
| Gross weight (kg) | 158 | 263 | 198 | 213 | 268 | 288 | 313 |
| Dimension [W x D x H] (mm) | 410 x 750 x 940 | | | | | | |
| Environment | | | | | | | |
| Operating temperature (°C) | 0~45 (Customizable for special circumstances) | | | | | | |
| Operating humidity | 0-93% (non-condensing) | | | | | | |
| Altitude (m) | ≤2000 | | | | | | |

- The above parameters are based on 6-pulse plus PFC model.
- With "L" for long-run machine with battery external, parallel machine can share the battery pack.
- Special specification models can be customised according to customer requirements.
- Product specifications are subject to change without further notice.