

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.

Industrial UPS

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.

Industrial UPS

Technical Specification

Model	BOT7.5KL	BOT10KL	BOT15KL	BOT20KL	BOT30KL	BOT40KL	BOT50KL
Capacity (kW)	6.75	9	13.5	18	27	36	45
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 870 x 990						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.

Industrial UPS

Technical Specification

Model	BOD6KL-B	BOD10KL-B	BOD15KL-B	BOD20KL-B	BOD30KL-B	BOD40KL-B	BOD60KL-B
Capacity (kW)	5.4	9	13.5	18	27	36	54
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 870 x 990						
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.

BOD series

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



Capacity

6/12 Pulse 10kVA-300kVA
SCR/IGBT rectification
Parallel capability to 20000kVA

Feature

- True double conversion
- Wide voltage range input, output fully isolated
- Dual-core DSP full digital control
- 6th generation IGBT devices + advanced SVPWM
- 3PH split-regulation, balanced voltage stabilisation
- Advanced redundant parallel connection technology, easy to expand capacity
- GCI parallel operation function
- Perfect protection function
- Reliable load-carrying capability
- Industrialised design, adapt to the harsh electrical environment
- Friendly man-machine interface, equipped with large LCD touch screen
- Multiple network monitoring interface: RS232\RS485\RJ45\ dry contact optional Wi-Fi function, with mobile phones or tablet PCs on the UPS power supply equipment for intelligent monitoring

Application

It is widely used in rail transportation, data centre, oil field, public security, army, communication, radar station, electric power, industrial site, airport, broadcasting and TV, bank, securities and medical system.

Introduction

BOD series are a 3 Phase In/3 Phase Out Industrial double-conversion online UPS, capacity from 10kVA~300kVA, this series of UPS adopts the 6th generation of IGBT power devices and static switches, the application of the latest type of dual-core DSP to achieve the full digital control; the use of industrial-grade high-standard design, the internal electrical connection of conductive alloys outsourcing the way of low-smoke halogen-free resin, which can withstand high voltage of 20,000 volts, clear, beautiful structure, good heat dissipation, and can resist 20,000 volts of high voltage. Clear, beautiful structure, good heat dissipation, greatly reducing the volume and weight of the power supply; with perfect detection and protection functions, each parameter index basically reaches the level of a national standard; the use of Chinese and English interface colour LCD touch screen, configure RS232, RS485 and other interfaces, optional SNMP card. can achieve intelligent monitoring of the UPS.

Industrial UPS

Technical Specification

Model	BOD 10KL	BOD 15KL	BOD 20KL	BOD 30KL	BOD 40KL	BOD 60KL	BOD 80KL	BOD 100KL	BOD 120KL	BOD 160KL	BOD 200KL	BOD 250KL	BOD 300KL
Capacity (kW)	9	13.5	18	27	36	54	72	90	108	144	180	225	270
Input													
Input voltage range (V a.c)	380±25%												
Frequency range (Hz)	50/60±5% (10% optional)												
Power factor	≥0.95												
Output													
Voltage & regulation (V a.c)	380±1%												
Frequency range (Hz)	Synchronous mode, 50/60±1; Inverter mode, 50/60±0.1												
Harmonic distortion (THDV%)	Pure sinewave, ≤2% THD (linear load); ≤3% THD (non-linear load)												
Voltage phase deviation	120°±1°												
Voltage unbalance	balanced load<1%; 50%<unbalanced load<3%; 100%<unbalanced load<5%												
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 (Customizable-192V d.c, 220V d.c, 280V d.c, 480V d.c, 576V d.c and other voltage)												
Type	2V/6V/12V Sealed maintenance-free battery												
Configuration	External, 32pcs/12V (28 ~ 34pcs adjustable)												
Backup time	Backup time determined by battery capacity												
System													
Transfer time (mS)	AC←→Batt.: 0; Inverter←→Bypass: <2												
IP protection	IP20 (Customizable)												
Efficiency	≥90% (Inverter full load); ≥97% (ECO mode)												
Noise (dB)	<55 @1m	<55 @1m	<55 @1m	<55 @1m	<55 @1m	<58 @1m	<58 @1m	<58 @1m	<63 @1m	<63 @1m	<63 @1m	<63 @1m	<63 @1m
Physical													
Net weight (kg)	255	265	270	295	327	430	507	515	605	665	1140	1200	1300
Gross weight (kg)	300	310	315	340	372	475	552	560	650	710	1205	1265	1365
Dimension [W x D x H] (mm)	800 x 600 x 1500										1000 x 800 x 1800		
Environment													
Operating temperature (°C)	0~45 (Customizable for special circumstances)												
Operating humidity	0-95% (non-condensing)												
Altitude (m)	≤4000												

- The above parameters are based on 6/12 pulse plus PFC (Power Factor Correction) models.
- 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.

BOD series

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



Capacity

18 Pulse 400kVA-600kVA
SCR/IGBT rectification
Parallel capability to 20000kVA

Feature

- True double conversion
- Wide voltage range input, output fully isolated
- Dual-core DSP full digital control
- 6th generation IGBT devices + advanced SVPWM
- 3PH split-regulation, balanced voltage stabilisation
- Advanced redundant parallel connection technology, easy to expand capacity
- GCI parallel operation function
- Perfect protection function
- Reliable load-carrying capability
- Industrialised design, adapt to the harsh electrical environment
- Friendly man-machine interface, equipped with large LCD touch screen
- Multiple network monitoring interface: RS232\RS485\RJ45\ dry contact optional Wi-Fi function, with mobile phones or tablet PCs on the UPS power supply equipment for intelligent monitoring

Application

It is widely used in rail transportation, data centre, oil field, public security, army, communication, radar station, electric power, industrial site, airport, broadcasting and TV, bank, securities and medical system.

Introduction

BOD series are a 3 Phase In/3 Phase Out Industrial double-conversion online UPS, capacity from 400kVA~600kVA, this series of UPS adopts the 6th generation of IGBT power devices and static switches, the application of the latest type of dual-core DSP to achieve the full digital control; the use of industrial-grade high-standard design, the internal electrical connection of conductive alloys outsourcing the way of low-smoke halogen-free resin, which can withstand high voltage of 20,000 volts, clear, beautiful structure, good heat dissipation, and can resist 20,000 volts of high voltage. Clear, beautiful structure, good heat dissipation, greatly reducing the volume and weight of the power supply; with perfect detection and protection functions, each parameter index basically reaches the level of a national standard; the use of Chinese and English interface colour LCD touch screen, configure RS232, RS485 and other interfaces, optional SNMP card. can achieve intelligent monitoring of the UPS.

Industrial UPS

Technical Specification

Model	BOD400KL	BOD500KL	BOD600KL
Capacity (kW)	3600	4500	5400
Input			
Input voltage range (V a.c)	380±25%		
Frequency range (Hz)	50/60±5% (10% optional)		
Power factor	≥0.95		
Output			
Voltage & regulation (V a.c)	380±1%		
Frequency range (Hz)	Synchronous mode, 50/60±1; Inverter mode, 50/60±0.1		
Harmonic distortion (THDV%)	Pure sinewave, ≤2% THD (linear load); ≤3% THD (non-linear load)		
Voltage phase deviation	120°±1°		
Voltage unbalance	balanced load<1%; 50%<unbalanced load<3%; 100%<unbalanced load<5%		
Parallel load current imbalance	≤5%		
Overload capability	overload 125% 10min; overload 150% 60S		
Current crest ratio	5:1		
Battery			
DC voltage (V d.c)	768		
Type	2V/6V/12V Sealed maintenance-free battery		
Configuration	External, 64pcs/12V		
Backup time	Backup time determined by battery capacity		
System			
Transfer time (mS)	AC↔Batt.: 0; Inverter↔Bypass: <2		
IP protection	IP20 (Customizable)		
Efficiency	≥90% (Inverter full load); ≥97% (ECO mode)		
Noise (dB)	<66@1m		
Physical			
Dimension [W x D x H] (mm)	2100 x 1100 x 2000		
Net weight (kg)	2620	3075	3530
Gross weight (kg)	2750	3205	3660
Environment			
Operating temperature (°C)	0~45 (Customizable for special circumstances)		
Operating humidity	0-95% (non-condensing)		
Altitude (m)	≤4000		

- The above parameters are based on 18 pulse plus PFC (Power Factor Correction) models.
- 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.