

# 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
- 6<sup>th</sup> 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.

## 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)	8	12	16	24	32	48	64	80	96	128	160	200	240
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
- 6<sup>th</sup> 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
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function, with mobile phones or tablet PCs on the  
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## 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.

## Technical Specification

Model	BOD400KL		BOD500KL		BOD600KL	
Capacity (kW)	320		400		480	
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.