

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.