

BODM series

Modular Online UPS



Capacity

10k-600kVA

Parallel capability to 2400kVA

10kVA、20kVA、30kVA power module

Feature

- Applied digital control
- Single power up to 600kVA, support 4U parallel operation
- 19-inch standard cabinet
- Hot-swappable modular design
- Centralised monitoring module
- Emergency power off function (EPO)
- Large LCD colour display with touch function
- Modules with independent control system
- Each module adopts DC cooling fan
- Module with its own display
- Selectable external battery configuration

Application

Post and telecommunications, electric power, communications and other industry sites, enterprises and institutions network server room and data centre, etc.

Introduction

BODM series N+X modular UPS power products are a combination of the technical characteristics of the traditional tower model and the modularity of the modern server room needs and design and development of fully digital power products, to provide a variety of specifications of the power module and the cabinet system, the user can be flexibly configured according to the load requirements. A single cabinet can achieve a capacity of 600kVA, and the parallel connection of cabinets can achieve a capacity of 2400kVA. The product has high efficiency and high power density with perfect detection and protection functions; it has optional communication interfaces and user-friendly monitoring software, which makes it convenient to achieve centralised monitoring and remote monitoring of the UPS.

Technical Specification

Model	BODM1 -10KL	BODM1 -20KL	BODM1 -30KL	BODM1 -40KL	BODM1 -50KL	BODM1 -60KL	BODM1 -70KL	BODM1 -80KL	BODM1 -90KL	BODM1 -100KL
Capacity (kW)	9	18	27	36	45	54	63	72	81	90
Power module (kVA)	10									
Input										
Input voltage range (V a.c)	380/400/415 (line voltage)									
Frequency range (Hz)	40~70									
Power factor	≥0.99									
Harmonic distortion (THDV%)	< 3% (100% non-linear)									
Output										
Voltage & regulation (V a.c)	380/400/415±1%									
Frequency range (Hz)	50/60±0.2%									
Voltage phase deviation	120°±0.5°									
Harmonic distortion (THDV%)	≤2% THD (linear load); ≤5% THD (non-linear load)									
Overload capability	≤110% 1h; ≤125% 10min; ≤150% 1min									
Current crest ratio	3:1									
Bypass										
Voltage (V)	380V/400/415 (line voltage)									
Voltage range	-20% ~ +15% (-45% ~ +20% Selectable)									
Battery										
DC voltage (V d.c)	±192 ~ ±240									
Type	12V Sealed maintenance-free battery									
Configuration	External battery, 32~40 pcs can be set in series									
Backup time	Backup time determined by battery capacity									
System										
Transfer time (mS)	AC↔Batt.: 0; AC↔Bypass: <0									
Efficiency	≥95%									
IP protection	IP20 (Customizable)									
Noise (dB)	<55@1m	<55@1m	<55@1m	<55@1m	<60@1m	<55@1m	<55@1m	<60@1m	<60@1m	<60@1m
Port	Standard RS232, optional RS485, dry contacts, SNMP (Network remote monitoring)									
Physical										
Module net weight (kg)	32									
Cabinet net weight (kg)	156	156	156	170	170	305	305	305	305	305
Dimension [W x D x H] (mm)	600 x 840 x 1400					600 x 1100 x 2000				
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.
- Battery external, can be parallel between cabinets.
- Product specifications are subject to change without further notice.

Technical Specification

Model	BODM2 -20KL	BODM2 -40KL	BODM2 -60KL	BODM2 -80KL	BODM2 -100KL	BODM2 -120KL	BODM2 -140KL	BODM2 -160KL	BODM2 -180KL	BODM2 -200KL
Capacity (kW)	18	36	54	72	90	108	126	144	162	180
Power module (kVA)	20									
Input										
Input voltage range (V a.c)	380/400/415 (line voltage)									
Frequency range (Hz)	40~70									
Power factor	≥0.99									
Harmonic distortion (THDV%)	< 3% (100% non-linear)									
Output										
Voltage & regulation (V a.c)	380/400/415±1%									
Frequency range (Hz)	50/60±0.2%									
Voltage phase deviation	120°±0.5°									
Harmonic distortion (THDV%)	≤2% THD (linear load); ≤4% THD (non-linear load)									
Overload capability	110% 1h; 125% 10min; 150% 1min									
Current crest ratio	3:1									
Bypass										
Voltage (V)	380V/400/415 (line voltage)									
Voltage range	-20% ~ +15% (-45% ~ +20% Selectable)									
Battery										
DC voltage (V d.c)	±192 ~ ±240									
Type	12V Sealed maintenance-free battery									
Configuration	External battery, 32~40 pcs can be set in series									
Backup time	Backup time determined by battery capacity									
System										
Transfer time (mS)	AC↔Batt.: 0; AC↔Bypass: <0									
Efficiency	≥95%									
IP protection	IP20 (Customizable)									
Noise (dB)	<55@1m	<55@1m	<55@1m	<55@1m	<60@1m	<55@1m	<55@1m	<60@1m	<60@1m	<60@1m
Port	Standard RS232, optional RS485, dry contacts, SNMP (Network remote monitoring)									
Physical										
Module net weight (kg)	32									
Cabinet net weight (kg)	156	156	156	170	170	305	305	305	305	305
Dimension [W x D x H] (mm)	600 x 840 x 1400					600 x 1100 x 2000				
Environment										
Operating temperature (°C)	0~45 (Customizable for special circumstances)									
Operating humidity	0-95% (non-condensing)									
Altitude (m)	≤1500									

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Technical Specification

Model	BODM3 -30KL	BODM3 -60KL	BODM3 -90KL	BODM3 -120KL	BODM3 -150KL	BODM3 -180KL	BODM3 -210KL	BODM3 -240KL	BODM3 -270KL	BODM3 -300KL
Capacity (kW)	27	54	81	108	135	162	189	216	243	270
Power module (kVA)	30									
Input										
Input voltage range (V a.c)	380/400/415 (line voltage)									
Frequency range (Hz)	40~70									
Power factor	≥0.99									
Harmonic distortion (THDV%)	< 3% (100% non-linear)									
Output										
Voltage & regulation (V a.c)	380/400/415±1%									
Frequency range (Hz)	50/60±0.2%									
Voltage phase deviation	120°±0.5°									
Harmonic distortion (THDV%)	≤2% THD (linear load); ≤4% THD (non-linear load)									
Overload capability	110% 1h; 125% 10min; 150% 1min									
Current crest ratio	3:1									
Bypass										
Voltage (V)	380V/400/415 (line voltage)									
Voltage range	-20% ~ +15% (-45% ~ +20% Selectable)									
Battery										
DC voltage (V d.c)	±192 ~ ±240									
Type	12V Sealed maintenance-free battery									
Configuration	External battery, 32~40 pcs can be set in series									
Backup time	Backup time determined by battery capacity									
System										
Transfer time (mS)	AC↔Batt.: 0; AC↔Bypass: <0									
Efficiency	≥95%									
IP protection	IP20 (Customizable)									
Noise (dB)	<55@1m	<55@1m	<55@1m	<55@1m	<60@1m	<55@1m	<55@1m	<60@1m	<60@1m	<60@1m
Port	Standard RS232, optional RS485, dry contacts, SNMP (Network remote monitoring)									
Physical										
Module net weight (kg)	32									
Cabinet net weight (kg)	156	156	156	170	170	305	305	305	305	305
Dimension [W x D x H] (mm)	600 x 840 x 1400					600 x 1100 x 2000				
Environment										
Operating temperature (°C)	0~45 (Customizable for special circumstances)									
Operating humidity	0-95% (non-condensing)									
Altitude (m)	≤1500									

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Capacity

10k-600kVA
Parallel capability to 2400kVA
40kVA power module

Feature

- Applied digital control
- Single power up to 600kVA, support 4U parallel operation
- 19-inch standard cabinet
- Hot-swappable modular design
- Centralised monitoring module
- Emergency power off function (EPO)
- Large LCD colour display with touch function
- Modules with independent control system
- Each module adopts DC cooling fan
- Module with its own display
- Selectable external battery configuration

Application

Post and telecommunications, electric power, communications and other industry sites, enterprises and institutions network server room and data centre, etc.

Introduction

BODM series N+X modular UPS power products are a combination of the technical characteristics of the traditional tower model and the modularity of the modern server room needs and design and development of fully digital power products, to provide a variety of specifications of the power module and the cabinet system, the user can be flexibly configured according to the load requirements. A single cabinet can achieve a capacity of 600kVA, and the parallel connection of cabinets can achieve a capacity of 2400kVA. The product has high efficiency and high power density with perfect detection and protection functions; it has optional communication interfaces and user-friendly monitoring software, which makes it convenient to achieve centralised monitoring and remote monitoring of the UPS.

Technical Specification

Model	BODM4 -40KL	BODM4 -80KL	BODM4 -120KL	BODM4 -160KL	BODM4 -200KL	BODM4 -240KL	BODM4 -280KL	BODM4 -320KL	BODM4 -360KL	BODM4 -400KL	BODM4 -440KL	BODM4 -480KL
Capacity (kW)	36	72	108	144	180	216	252	288	324	360	396	432
Power module (kVA)	40											
Input												
Input voltage range (V a.c)	380/400/415 (line voltage)											
Frequency range (Hz)	40~70											
Power factor	≥0.99											
Harmonic distortion (THDV%)	< 3% (100% non-linear)											
Output												
Voltage & regulation (V a.c)	380/400/415±1%											
Frequency range (Hz)	50/60±0.2%											
Voltage phase deviation	120°±0.5°											
Harmonic distortion (THDV%)	≤2% THD (linear load); ≤4% THD (non-linear load)											
Overload capability	110% 1h; 125% 10min; 150% 1min											
Current crest ratio	3:1											
Bypass												
Voltage (V)	380V/400/415 (line voltage)											
Voltage range	-20% ~ +15% (-45% ~ +20% Selectable)											
Battery												
DC voltage (V d.c)	±192 ~ ±240											
Type	12V Sealed maintenance-free battery											
Configuration	External battery, 32~40 pcs can be set in series											
Backup time	Backup time determined by battery capacity											
System												
Transfer time (mS)	AC↔Batt.: 0; AC↔Bypass: <0											
IP protection	≥95%											
Efficiency	IP20 (Customizable)											
Noise (dB)	<55@1m	<55@1m	<55@1m	<55@1m	<55@1m	<60@1m	<55@1m	<55@1m	<60@1m	<60@1m	<60@1m	<60@1m
Port	Standard RS232, optional RS485, dry contacts, SNMP (Network remote monitoring)											
Physical												
Module net weight (kg)	32											
Cabinet net weight (kg)	260	260	260	260	260	260	720	720	720	720	720	720
Dimension [W x D x H] (mm)	600 x 850 x 2000						1200 x 850 x 2000					
Environment												
Operating temperature (°C)	0~45 (Customizable for special circumstances)											
Operating humidity	0-95% (non-condensing)											
Altitude (m)	≤1500											

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Capacity

10k-600kVA

Parallel capability to 2400kVA

50kVA power module

Feature

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- 19-inch standard cabinet
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Technical Specification

Model	BODM5 -50KL	BODM5 -100KL	BODM5 -150KL	BODM5 -200KL	BODM5 -250KL	BODM5 -300KL	BODM5 -350KL	BODM5 -400KL	BODM5 -450KL	BODM5 -500KL	BODM5 -550KL	BODM5 -600KL
Capacity (kW)	45	90	135	180	225	270	315	360	405	450	495	540
Power module (kVA)	50											
Input												
Input voltage range (V a.c)	380/400/415 (line voltage)											
Frequency range (Hz)	40~70											
Power factor	≥0.99											
Harmonic distortion (THDV%)	< 3% (100% non-linear)											
Output												
Voltage & regulation (V a.c)	380/400/415±1%											
Frequency range (Hz)	50/60±0.2%											
Voltage phase deviation	120°±0.5°											
Harmonic distortion (THDV%)	≤2% THD (linear load); ≤4% THD (non-linear load)											
Overload capability	110% 1h; 125% 10min; 150% 1min											
Current crest ratio	3:1											
Bypass												
Voltage (V)	380V/400/415 (line voltage)											
Voltage range	-20% ~ +15% (-45% ~ +20% Selectable)											
Battery												
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Transfer time (mS)	AC↔Batt.: 0; AC↔Bypass: <0											
IP protection	≥95%											
Efficiency	IP20 (Customizable)											
Noise (dB)	<55@1m	<55@1m	<55@1m	<55@1m	<55@1m	<60@1m	<55@1m	<55@1m	<60@1m	<60@1m	<60@1m	<60@1m
Port	Standard RS232, optional RS485, dry contacts, SNMP (Network remote monitoring)											
Physical												
Module net weight (kg)	32											
Cabinet net weight (kg)	260	260	260	260	260	260	720	720	720	720	720	720
Dimension [W x D x H] (mm)	600 x 850 x 2000						1200 x 850 x 2000					
Environment												
Operating temperature (°C)	0~45 (Customizable for special circumstances)											
Operating humidity	0-95% (non-condensing)											
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