

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 Opecification	i	DODMA	DODIM	BODIM	BODINA	DODMA	BODIM	DODMA	DODMA	BODIM				
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)				38	30/400/415	(line volta	ge)							
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								
Туре				12V Sea	aled mainte	enance-fre	e battery							
Configuration			Ex	ternal batt	ery, 32~40	pcs can b	e set in sei	ries						
Backup time			ŀ	Backup tim	e determin	ed by batt	ery capacit	ty						
System														
Transfer time (mS)				AC←-	→Batt.: 0; A	С←→Вур	ass: <0							
Efficiency					≥9	5%								
IP protection					IP20 (Cus	tomizable)								
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, op	tional RS4	85, dry cor	ntacts, SNN	ЛР (Netwo	rk remote r	monitoring)	ı				
Physical														
Module net weight (kg)					. 3	32								
Cabinet net weight (kg)	156													
Dimension [W x D x H] (mm)		600	0 x 840 x 1	400			600	x 1100 x 2	2000					
Environment														
Operating temperature (°C)			0~	~45 (Custo	mizable fo	r special ci	rcumstanc	es)						
Operating humidity				0	-95% (non-	-condensin	ıg)							
Altitude (m)						500								
. ,	be customised according to customer requirements.													

- 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.



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)					2	0								
Input						-								
Input voltage range (V a.c)				38	30/400/415	(line voltage	ge)							
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								
Туре				12V Sea	aled mainte	nance-free	e battery							
Configuration			Ex	ternal batt	ery, 32~40	pcs can be	e set in ser	ries						
Backup time			i i	Backup tim	e determin	ed by batte	ery capacit	у						
System														
Transfer time (mS)				AC←-	→Batt.: 0; A	С←→Вур	ass: <0							
Efficiency					≥9	5%								
IP protection			·	T	IP20 (Cus	tomizable)	·	T	1					
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, op	tional RS4	85, dry con	tacts, SNN	/IP (Netwo	rk remote r	monitoring)					
Physical														
Module net weight (kg)			ı	T	3	2	ı	T	1					
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 1	400			600	x 1100 x 2	2000					
Environment														
Operating temperature (°C)			0~	45 (Custo	mizable for	r special ci	rcumstanc	es)						
Operating humidity				0	-95% (non-	condensin	g)							
Altitude (m) - Special specification models can						500								

[•] Special specification models can be customised according to customer requirements.

[·] Battery external, can be parallel between cabinets.

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Madal	BODM3	BODM3	BODM3	вормз	BODM3	BODM3	BODM3	BODM3	BODM3	вормз				
Model	-30KL	-60KL	-90KL	-120KL	-150KL	-180KL	-210KL	-240KL	-270KL	-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								
Туре				12V Sea	aled mainte	enance-free	e battery							
Configuration			Ex	ternal batt	ery, 32~40	pcs can be	e set in ser	ries						
Backup time			[Backup tim	e determin	ed by batte	ery capacit	у						
System														
Transfer time (mS)				AC←-	>Batt.: 0; A	С←→Вур	ass: <0							
Efficiency					≥9	5%								
IP protection					IP20 (Cus	tomizable)								
Noise (dB)	<55@1m	<55@1m	<55@1m	<55@1m	<60@1m	<55@1m	<55@1m	<60@1m	<60@1m	<60@1m				
Port		Standard I	RS232, op	tional RS4	85, dry cor	ntacts, SNN	/IP (Netwo	rk remote r	monitoring)					
Physical														
Module net weight (kg)					. 3	32								
Cabinet net weight (kg)	156	156	156	170	170	305	305	305	305	305				
Dimension [W x D x H]		600) v 040 v 1	400			600	v 1100 v 5	2000					
(mm)		600	0 x 840 x 1	400			600	x 1100 x 2	2000					
Environment														
Operating temperature (°C)			0~	45 (Custo	mizable fo	r special ci	rcumstanc	es)						
Operating humidity				0-	-95% (non-	-condensin	g)							
Altitude (m)					≤1	500								
	b be customised according to customer requirements.													

[•] Special specification models can be customised according to customer requirements.

⁻ Battery external, can be parallel between cabinets.

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BODM series

Modular Online UPS



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

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BODM4 -40KL	BODM4 -80KL	BODM4 -120KL	BODM4 -160KL	BODM4 -200KL	BODM4 -240KL	BODM4 -280KL	-320KL	BODM4 -360KL	BODM4 -400KL	BODM4 -440KL	BODM4 -480KL	
36	72	108	144	180	216	252	288	324	360	396	432	
40												
380/400/415 (line voltage)												
300/400/413 (ilite voltage)												
40~70												
≥0.99												
< 3% (100% non-linear)												
					380/400/	/415±1%						
					50/60:	±0.2%						
					120°:	±0.5°						
	≤2% THD (linear load); ≤4% THD (non-linear load)											
	110% 1h; 125% 10min; 150% 1min											
	3:1											
380V/400/415 (line voltage)												
-20% ~ +15% (-45% ~ +20% Selectable)												
·												
					±192 ~	~ ±240						
				12V Seale	ed mainte	nance-fr	ee batter	У				
			Exter	nal batter	y, 32~40	pcs can	be set in	series				
			Bad	ckup time	determin	ed by bat	ttery capa	acity				
				AC←→E	Batt.: 0; A	С←→Ву	pass: <0					
					≥9	5%						
				. 1	P20 (Cus	tomizable)					
<55@1m	<55@1m	<55@1m	<55@1m	<55@1m	<60@1m	<55@1m	<55@1m	<60@1m	<60@1m	<60@1m	<60@1m	
	Stand	dard RS2	32, optior	nal RS48	5, dry con	tacts, SN	IMP (Net	work rem	ote monit	oring)		
					3	2		_				
260	260	260	260	260	260	720	720	720	720	720	720	
		600 v 05	U ^ 3000					1200 v 9	50 v 2000			
		000 X 83	0 X 2000					1200 X 8	JU X 2000			
0~45 (Customizable for special circumstances)												
					95% (non-		ing)					
	80DM4 -40KL 36	BODM4 -80KL 36 72	BODM4	-40KL	Sobma	BODM4	BODM4	BODM4	BODM4	BODM4	BODM4	

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BODM series

Modular Online UPS



Capacity

10k-600kVA
Parallel capability to 2400kVA
50kVA 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
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rechnical Specific				1			1			1		1		
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		380/400/415 (line voltage)												
(V a.c)		360/400/413 (IIIIe 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				-2	20% ~ +15	5% (-45%	5 ~ +20%	Selectab	ole)					
Battery														
DC voltage (V d.c)						±192 ⁻	~ ±240							
Туре					12V Seal	ed mainte	enance-fr	ee batter	y					
Configuration				Exter	nal batte	ry, 32~40	pcs can	be set in	series					
Backup time				Bad	ckup time	determin	ed by ba	ttery capa	acity					
System														
Transfer time (mS)					AC←→I	Batt.: 0; A	С←→Ву	pass: <0						
IP protection						≥9	5%							
Efficiency					. 1	P20 (Cus	tomizable	e)						
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		Stanc	dard RS2	32, option	nal RS48	5, dry cor	itacts, SN	IMP (Net	work rem	ote monit	oring)			
Physical														
Module net weight (kg)						3	32							
Cabinet net weight (kg)	260	260	260	260	260	260	720	720	720	720	720	720		
Dimension [W x D x H]			600 × 05	0 v 2000					1200 + 01	50 × 2000	,			
(mm)			000 X 85	0 x 2000					1200 x 8	JU X 2000	,			
Environment														
Operating temperature (°C)		0~45 (Customizable for special circumstances)												
Operating humidity					0-9	95% (non-	-condens	ing)						
Altitude (m)						<u> </u>	500	<u> </u>				_		
Special specification model	o con bo c	uotomiood	Lacardia	~ to oueto										

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