



B8031/B8033FXS series

Features and benefits

- High double conversion efficiency and smart-on-line mode for low running costs and environmental impact.
- Transformer free design for light small size layout.
- Removable power modules architecture and built-in diagnostics for easy maintenance and very low MTTR.
- Hot connection/disconnection of parallel units for easy system resizing.
- Full IGBT technology and electronic PFC, ensuring 0.99 input PF and THDi<3% for maximum upstream sources compatibility.
- Accurate battery management providing ripple current minimization charge current/voltage control as per batteries manufacturers' specifications and automatic/manual battery test for maximum battery expected life preservation.
- High power battery charger, giving long autonomy and low charging time.
- Dual DSP plus microcontroller logics for top performance and reliability.
- CAN-bus based distributed parallel control ensuring high load sharing accuracy and no single point of failure in parallel systems.
- Comprehensive set of communication options for total remote monitoring of equipment operation.
- Fully compliance with all international product standards for maximum quality quarantee.

Main options

- Isolation transformer.
- Transformers/autotransformers for voltage adjustment.
- Battery voltage temperature compensation.
- External maintenance bypass wall-mounted box.
- Battery fuse switch wall-mounted box.
- Associated battery cabinets for long autonomy times.
- Parallel kit.
- Input terminals for remote EPO, external manual bypass auxiliary contact, diesel mode.

B8031FXS

Backfeed protection included

B8031FXS technical data



Rating (kVA)	10	15	20		
·	9	13.5			
Nominal power (kW)	у у		18		
UPS dimensions WxHxD (mm)	100	450x1200x670	110		
UPS weight (kg)	100	110	110		
UPS weight with internal battery (kg)	Min.175 Max.285	Min.260 Max.275	Min.260 Max.275		
External battery module	Mdx.203	741dX.27 3	1VIQX.27 3		
dimensions WxHxD		500x1200x670			
Battery configuration	Internal or ext	ernal, 360÷372 cells, VRLA	(other options)		
Input					
Connection type		dwired 4w (rectifier), 2w (by	· · ·		
Nominal voltage		′415 Vac 3-phase with neutr 0/230/240 Vac 1-phase (byp	•		
Voltage tolerance		-20%, +15%			
Frequency and range		50/60 Hz (45÷65 Hz)			
Power factor		0.99			
Current distortion (THDi)		<3%			
Output					
Connection type		Hardwired 2w			
Nominal voltage		220/230/240 Vac 1-phase)		
Frequency		50/60 Hz			
Voltage regulation	±1% stati	ic; dynamic: IEC EN 62040	-3 Class 1		
Power factor	up to 0.9, la	gging or leading without po	wer derating		
Overload capacity		for 10 min, 126÷150% for 3			
Efficiency (AC/AC)*	7.	up to 98%			
Classification as per IEC EN 62040-3		VFI-SS-111			
Connectivity and function ex	tensions				
Front panel	Graphic display	, mimic LED panel and keyb	ooard, local EPO		
Remote communication	Optional: input termina breaker aux. cont., exte diesel mod Web interface (Etherne ModBus-RTU to PR	Serial RS232 and USB; ock for battery breaker auxili I block (remote emergency pernal maintenance bypass ci e aux. cont.); SNMP adapte t), ModBus-TCP/IP (Ethernet) OFIBUS DP adapter; SPDT c panel; UPS managing and	ower off, battery circuit rcuit breaker aux. cont., r (Ethernet), ; ModBus-RTU (RS485); ontact relay board;		
Optional function extensions	external maintenance byp	ansformers/autotransformers ass; custom battery cabinets ox; battery thermal probe; p	; wall-mounted battery fuse		
System					
Protection degree		IP 20			
Colour		RAL 7016			
Installation layout	10 cm wall-gap, side by side installation allowed				
Accessibility	Front and top access, bottom cable entry				

*according to IEC EN 62040-3



B8033FXS

Extra options

- Separate bypass input
- Backfeed protection (optional from 30 kVA to 60 kVA, included in all other sizes)



UPS weight (kg) UPS weight with internal battery (kg) External battery module dimensions WxHxD (mm) Battery configuration Connection type Nominal voltage Voltage tolerance Frequency and range Power factor Current distortion (THDi)	ln	Min.260 Max.275 500x1200x670 sternal or externa 360÷372 cells, RLA (other option	al, ns) ired 4w (separa 380/400/4	* 140 350 ate bypass inpu 115 Vac 3-phase -20%, +15% /60 Hz (45÷65 0.99 <3% Hardwired 4w	with neutral	External, 36 VRLA (oth	72 460x16 328 - 590x880 50÷372 cells, eer options)	90 90x920 333	
UPS weight with internal battery (kg) External battery module dimensions WxHxD (mm) Battery configuration Put Connection type Nominal voltage Voltage tolerance Frequency and range Power factor Current distortion (THDi) utput Connection type Nominal voltage Voltage regulation Power factor	Min.260 Max.275	Min.260 Max.275 500x1200x670 sternal or externa 360÷372 cells, RLA (other option	140 350 al, as) ired 4w (separa 380/400/4	140 350 ate bypass inpu 115 Vac 3-phase -20%, +15% /60 Hz (45÷65 0.99 <3%	t available on r	560x16 External, 36 VRLA (oth	328 - 590x880 50÷372 cells,		
UPS weight with internal battery (kg) External battery module dimensions WxHxD (mm) Battery configuration Put Connection type Nominal voltage Voltage tolerance Frequency and range Power factor Current distortion (THDi) utput Connection type Nominal voltage Voltage regulation Power factor	Min.260 Max.275	Min.260 Max.275 500x1200x670 atternal or externa 360÷372 cells, RLA (other option	350 al, as) ired 4w (separa 380/400/4	350 ate bypass inpu 115 Vac 3-phase -20%, +15% /60 Hz (45÷65 0.99 <3%	t available on r	560x16 External, 36 VRLA (oth	- 690x880 60÷372 cells,	333	
External battery (kg) External battery module dimensions WxHxD (mm) Battery configuration put Connection type Nominal voltage Voltage tolerance Frequency and range Power factor Current distortion (THDi) utput Connection type Nominal voltage Frequency Voltage regulation Power factor	Max.275	Max.275 500x1200x670 sternal or externa 360÷372 cells, RLA (other option	sal, ns) ired 4w (separa 380/400/4	ate bypass inpu 115 Vac 3-phase -20%, +15% /60 Hz (45÷65 0.99 <3%	with neutral	External, 36 VRLA (oth	00÷372 cells,	-	
dimensions WxHxD (mm) Battery configuration put Connection type Nominal voltage Voltage tolerance Frequency and range Power factor Current distortion (THDi) utput Connection type Nominal voltage Frequency Voltage regulation Power factor	ln	aternal or externo 360÷372 cells, RLA (other option	al, ns) ired 4w (separa 380/400/4	115 Vac 3-phase -20%, +15% /60 Hz (45÷65 0.99 <3%	with neutral	External, 36 VRLA (oth	00÷372 cells,		
Connection type Nominal voltage Voltage tolerance Frequency and range Power factor Current distortion (THDi) Putput Connection type Nominal voltage Frequency Voltage regulation Power factor		360÷372 cells, RLA (other option	ired 4w (separ 380/400/4 50,	115 Vac 3-phase -20%, +15% /60 Hz (45÷65 0.99 <3%	with neutral	VRLA (oth			
Nominal voltage Voltage tolerance Frequency and range Power factor Current distortion (THDi) Dutput Connection type Nominal voltage Frequency Voltage regulation Power factor		Hardwi	380/400/4	115 Vac 3-phase -20%, +15% /60 Hz (45÷65 0.99 <3%	with neutral	equest)			
Nominal voltage Voltage tolerance Frequency and range Power factor Current distortion (THDi) Poutput Connection type Nominal voltage Frequency Voltage regulation Power factor		Hardwi	380/400/4	115 Vac 3-phase -20%, +15% /60 Hz (45÷65 0.99 <3%	with neutral	equest)			
Voltage tolerance Frequency and range Power factor Current distortion (THDi) utput Connection type Nominal voltage Frequency Voltage regulation Power factor			50,	-20%, +15% /60 Hz (45÷65 0.99 <3%					
Frequency and range Power factor Current distortion (THDi) utput Connection type Nominal voltage Frequency Voltage regulation Power factor				/60 Hz (45÷65 0.99 <3%	Hz)				
Power factor Current distortion (THDi) utput Connection type Nominal voltage Frequency Voltage regulation Power factor				0.99	Hz)				
Current distortion (THDi) utput Connection type Nominal voltage Frequency Voltage regulation Power factor				<3%					
Connection type Nominal voltage Frequency Voltage regulation Power factor									
Connection type Nominal voltage Frequency Voltage regulation Power factor				Hardwired 4w					
Nominal voltage Frequency Voltage regulation Power factor				Hardwired 4w					
Frequency Voltage regulation Power factor									
Voltage regulation Power factor		380/400/415 Vac 3-phase with neutral							
Power factor	50/60 Hz								
		±	±1% static; dyn	amic: IEC EN 6	2040-3 Class 1				
Overload capability		up to	0.9, lagging o	r leading withou	ıt power deratiı	ng			
	Inverter: 101÷125% for 10 min, 126÷150% for 30 s, >150% for 10 s; bypass: 150% continuous, 1000% for 1 cycle		Inverter: 101÷125% for 10 m 126÷150% for 1 mir 151÷199% for 10 s 200% for 100 ms; bypass: 150% continue 1000% for 1 cycle						
Efficiency (AC/AC)**				up to 98%					
Classification as per IEC EN 62040-3				VFI-SS-111					
onnectivity and function extensions									
Front panel		Graphi	ic display, mim	ic LED panel an	d keyboard, loc	cal EPO			
Remote communication external m	naintenance bypa: ModE	l: input terminal	block (remote e r aux. cont., di rnet); ModBus-F	iesel mode aux. RTU (RS485); M	er off, battery c cont.); SNMP c odBus-RTU to PF	ircuit breaker a adapter (Etherne ROFIBUS DP ac	iux. cont., et), Web interfac lapter;	ce (Etherne	
Optional function extensions Isolation	transformer; trans	formers/autotrar wall-mounted	nsformers for vo battery fuse sv	oltage adjustme witch box; batter	nt; external mai ry thermal prob	ntenance bypa e; parallel kit	ss; custom batte	ery cabinet	
ystem									
Protection degree				IP 20					
Colour		R	AL 7016 (10-6	60 kVA) RAL 900	05 (80-100 kVA	1)			
Installation layout		10	om wall-gap,	side by side ins	tallation allowe	ed			