



**UNI Jet**

**ИБП Borri B9000FXS - технические спецификации. Юниджет**

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# TECHNICAL DATA SHEET

## B9000FXS 200-250-300 kVA

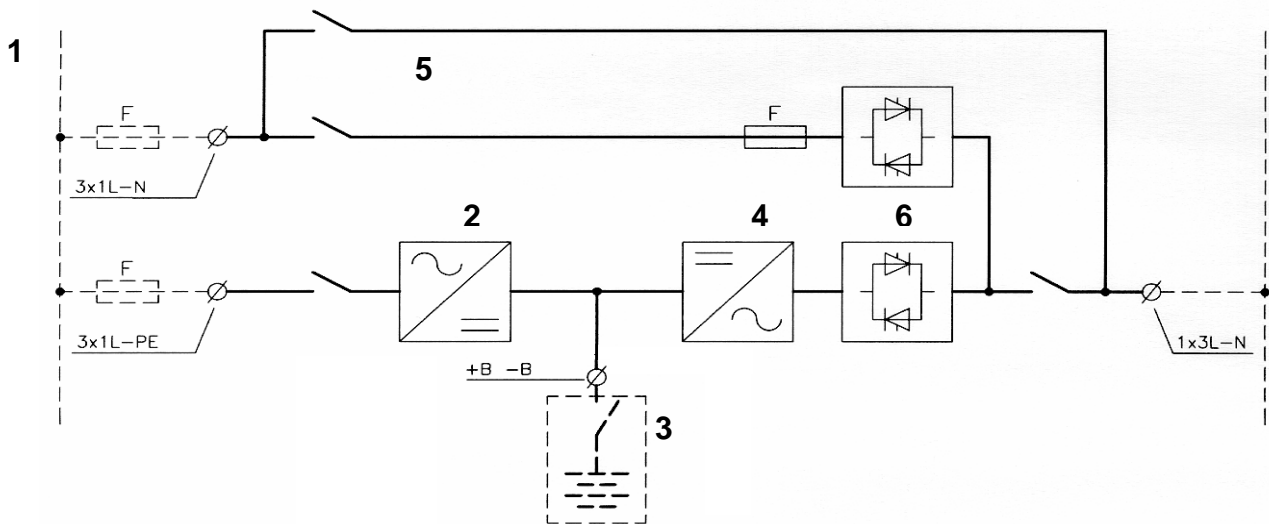
### GENERAL INFORMATION

POWER	kVA	200	250	300
UPS Type		ON LINE - Double Conversion		
Nominal output power (Cosφ 0.9)	kVA	200	250	300
Nominal output power (Cosφ 1.0)	kW	180	225	270
Efficiency (AC ÷ AC) * (ON LINE - Double Conversion)	@25% load @50% load @75% load @100% load		> 92 > 95 > 95 > 95	
* Certified by TÜV NORD GmbH				
Efficiency (AC ÷ AC) (Eco Mode)	%		> 98	
Heat dissipation at nominal load and voltage	kW	12.4	15.4	18.5
	kcal/h x 1000	10.6	13.3	16.0
UPS ambient temperature	°C	0 ÷ 40		
Battery ambient temperature	°C	0 ÷ +25		
UPS storage temperature	°C	-10 ÷ +70		
Battery storage temperature	°C	-10 ÷ +60		
Relative humidity (non condensing)	%	< 95		
Altitude	m	< 1000 (Above See Level)		
Power derating for altitude > 1000mt		According to "IEC62040-3", 1% power derating every 100m above 1000m, up to max 2000m		
Ventilation		FORCED		
Requested cooling air volume	m <sup>3</sup> /h	3500	4100	4500
Audible noise level (according to IEC EN 62040-3)	dB	< 62		
Standard battery type lead acid (n° of cells)	n° cells	300 - 312 adjustable		
Protection degree		IP 20		
Electromagnetic compatibility EMI		According to "IEC EN 62040-2" (CE marking)		
Safety		IEC EN 62040-1		
Test and performance		IEC EN 62040-3		
Paint		RAL 7016		
Accessibility		Front and top access for service		
Installation		Also against wall and/or side-by-side		
Dimensions	mm	W = 1217 D = 853 H = 1900		
Weight (without battery)	kg	970	1090	1170
Static load (without battery)	kg/m <sup>2</sup>	888	998	1071
Input/output cable connection		Bottom Side (Top Side on Request)		
Transport		Base provided for forklift handling		
Transport mechanical stress		According to "IEC EN 62040-3"		
Design standard		"IEC EN 62040" "ISO 9001:2008" - "ISO 14001"		

Rev.	Descrizione Description	Data Date	Emesso Issued	Approvato Approved	Lingua Language	Pagina Page	di Pag. of Pag.
/	First Issue	29.11.10	L. Fognani	P. Conti	E	1	6
B	Revision JSE413841	07.02.11	L. Fognani	P. Conti			
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Free contact interface		Standard to remotize the following contact: EPO – MCB – BCB – DIESEL MODE
Serial communication interface		Standard: RS232 - USB Optional: RS485 (Mod-Bus protocol)
Parallel configuration		Up to 5+1 (redundant parallel) Up to 6 (power parallel)

## BLOCK DIAGRAM



1. Input mains (separate for by-pass and rectifier)
2. Rectifier and battery charger
3. External battery
4. Inverter
5. Emergency line (by-pass) with optional backfeed contactor
6. Inverter (SSI) and by-pass (SSB) static switch

## UPS INPUT: RECTIFIER AND BATTERY CHARGER

POWER		kVA	200	250	300
Input			Three-phase		
Nominal Input Voltage		Vac	400		
Range		%	-20/+15		
Input Frequency		Hz	50 – 60		
Range			±5 / ±10 adjustable		
Input Power Factor			> 0,99		
Input Current THD at nominal voltage and THDV <0.5% *	@25% load	%	< 10		
	@50% load		< 7		
	@75% load		< 5		
	@100% load		< 3		
* Certified by TÜV NORD GmbH					
DC Output Voltage Accuracy		%	+/- 1		
DC Output Voltage Ripple		% rms	1		
Battery Recharging Characteristic			IU (DIN 41773)		
Maximum recharging current		A	30	40	40
- at nominal load					
- with DCM function (max current)			100	100	100
AC-DC converter type			PFC IGBT		
Input protection			Fuses		
Nominal Current Absorbed from Mains (at nominal load and Battery charged)		A	275	342	413
Maximum Current Absorbed from Mains (at nom. load, max. recharging current and nominal input voltage)		A	312	392	463
Sectable walk-in		sec	Sectable from 5" to 30"		
Sectable hold-off		sec	Sectable from 1" to 300"		

## BATTERY

POWER		kVA	200	250	300
Type (standard) other on request			Lead Sealed maintenance free		
Number of Cells			300 – 312 adjustable		
Floating Voltage at 25°C		Vdc	680 for 300 cells, 707 for 312 cells (adjustable)		
Minimum Discharge Voltage		Vdc	496 for 300 cells, 516 for 312 cells (adjustable)		
Inverter input power (at nominal Load)		kW	186	232	280
Inverter input current (at nominal load - minimum Vdc)		A	377	470	565
Battery Protection (external to the UPS)			Wall mounted fused switch box on request		
Battery Test			Included as standard		

## UPS OUTPUT: INVERTER

POWER		kVA	200	250	300
Inverter Bridge			IGBT (High Frequency PWM)		
Nominal output power (Cosφ 0.9)		kVA	200	250	300
Nominal output power (Cosφ 1.0)		kW	180	225	270
Efficiency (DC ÷ AC)	@25% load	%	> 92		
	@50% load				
	@75% load				
	@100% load				
Output		Vac	Three-phase + Neutral		
Nominal Output Voltage - (selectable)			380-400-415		
Output Voltage Stability					
- Static (Balanced Load)		%	+/- 1		
- Static (Unbalanced Load)		%	+/- 2		
- Dynamic (Step Load 20%÷ 100% ÷20%)		%	+/- 5		
- Output Volt. Recovery Time(after step load)		ms	< 20		
- IEC EN 62040-3			Class 1		
Phase Angle Accuracy					
- Balanced Load		°	+/- 1 Degree		
- 100% Unbalanced Load			+/- 2 Degrees		
Output Frequency –Hz (selectable)		Hz	50 - 60		
Output Frequency Stability					
- Free Running Quartz Oscillator		Hz	± 0,001		
- Inverter Sync. with Mains		Hz	± 2 (other on request)		
- Slew rate		Hz/s	1		
Nominal Output Current (@ 400 Vac output)					
- Cosφ 0.9 (leading and lagging)		A	290	362	435
- Cosφ 1 (purely resistive load)			260	326	390
Overload Capability			10 min	>100%...125%	
			1 min	>125%...150%	
			10 s	>150%...199%	
			100ms	at 200%	
Short Circuit Current		A	462	580	694
Short Circuit			Elect. short circuit protection, current limited at above values. Automatic stop after 5 seconds		
Selectivity			Within ½ cicle (Fuse gl 20% In)		
Output Waveform			Sinusoidal		
Output Harmonic Distortion					
- Linear Load		%	< 1		
- Non Linear Load			< 5		
- IEC EN 62040-3			Fully compliant		
Max Crest Factor without derating			3:1		

## UPS OUTPUT: BYPASS

Automatic Static By-Pass		Electronic Thyristor Switch
Protection		Fuses
Bypass	Vac	Triphase + Neutral
Nominal Voltage (selectable) Range	Vac %	380-400-415 ±10
Nominal Frequency (selectable) Range	Hz %	50 - 60 ±(1÷5) ±10 adjustable
Transfer mode		Without interruption
Transfer inverter → automatic bypass		In case of : - Static Switch test - Inverter test - Inverter not operating - Battery end of discharge
Retransfer automatic bypass → inverter		- Automatic - Block on bypass after 6 transfers within 2 minutes, reset by front panel
Overload Capability	%	150 Continuously 1000 For 1 Cycle
Manual By-Pass		Standard: - Electronically controlled - No break

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## OPTIONS

1. BATTERY TEMPERATURE VOLTAGE COMPENSATION
2. INSULATION TRANSFORMER ON BY-PASS
3. VOLTAGE ADAPTATION AUTO-TRANSFORMERS
4. RELAY CARD (Eight signals Alarms/Statuses), Free relay contact
5. SERIAL INTERFACE RS-485 (MOD-BUS protocol)
6. SNMP ADAPTER
7. REMOTE MONITORING PANEL
8. PARALLEL CARD INTERFACE KIT
9. EXTERNAL BATTERY CABINET
10. WALL MOUNTED FUSED SWITCH BOX
11. IN/OUT TOP CABLE ENTRY
12. SPECIAL PAINT
13. LOAD-SYNC BUS CARD INTERFACE KIT
14. BACK FEED PROTECTION

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## OTHER SOFTWARE SELECTABLE FEATURES

1. DIESEL-MODE
2. ECO-MODE
3. BOOST-CHARGE
4. RECTIFIER WALK-IN TIME
5. RECTIFIER DELAY ON STARTUP (HOLD-OFF TIME)
6. FREQUENCY CONVERTER MODE
7. DCM FUNCTION