B9600FXS Uninterruptible Power Supply 3-Ph from 400 to 800 kVA

Applications

- Medium data centres
- Networks and servers
- Industrial control and process automation
- Medical equipment
- Building automation

Highlights

23

- On-line double conversion
- Full IGBT technology
- Paralleling up to 4.8 MVA



B9600FXS

Uninterruptible Power Supply

3-Ph from 400-800 kVA





Features and benefits

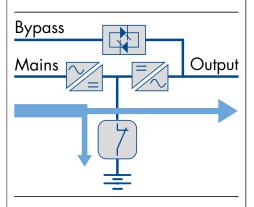
- High double conversion efficiency and ECO mode for low running costs and environmental impact.
- Front access to all critical components for easy maintenance.
- Built-in inverter transformer for DC/AC galvanic protection of industrial type loads.
- Included backfeed bypass contactor for complete protection and operators' safety without additional installation costs.
- 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.
- Dynamic Charging Mode (DCM) for maximum versatility in long autonomy and low charging time applications.
- Smart parallel management in load sharing, load synchronization of single UPS systems and load synchronization of two paralleled systems for optimum protection.
- 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 compliant with all international product standards for maximum quality guarantee.

Main options

- Manual bypass in extended cabinet.
- Bypass 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 for load sharing.
- Load-sync for single UPS units.
 Load-sync box for two sets of paralleled UPS.
- Top cable entry.

Dynamic Charging Mode (DCM)

The battery charging current can be set above the nominal, up to the DCM limit, in order to manage high capacity battery packs. The extra charging power is fed to the battery, as long as the load does not requires it. This is a firmware enabled feature.



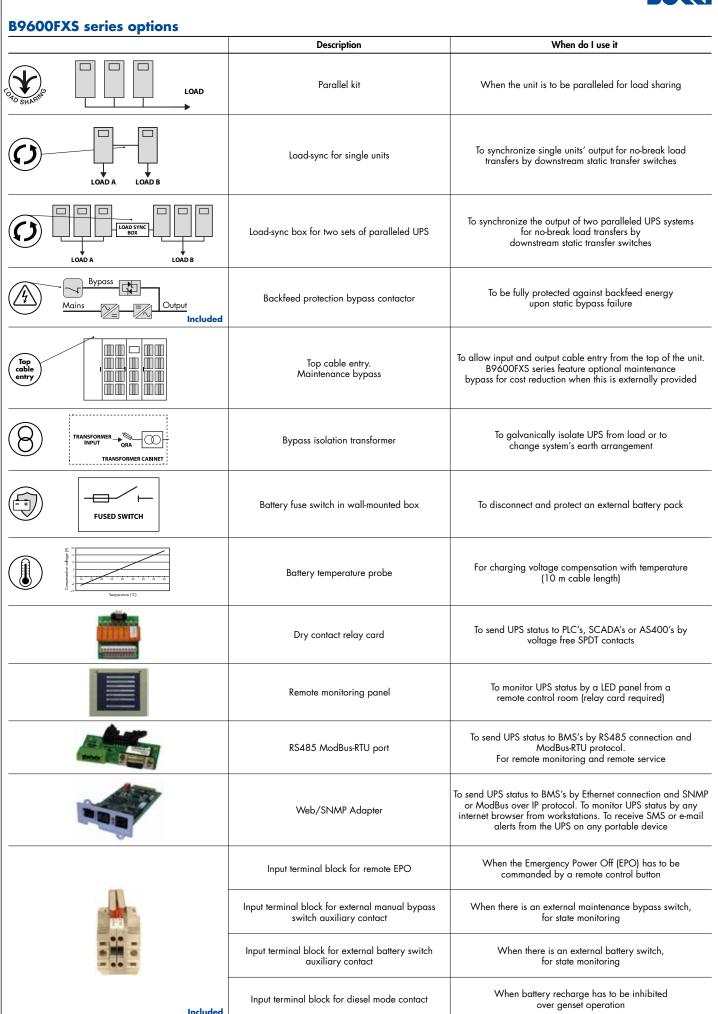






B9600FXS technical data

Rating (kVA)	400	500	600	800	
Nominal power (kW)	360	450	540	720	
Dimensions WxDxH (mm)	1990x990x1920	2440x990x2020	2440x990x2020	3640x990x1920	
UPS weight (kg)	1820	2220	2400	3600	
Battery configuration		External, 300 to 312 c	ells, VRLA (other options)		
out			· · ·		
Connection type		Hardwired 3w (re	ctifier), 4w (bypass)		
Newinglughters	400 Vac 3-phase (rectifier)				
Nominal voltage	380/400/415 Vac 3-phase with neutral (bypass)				
Voltage tolerance	-20%, +15% (rectifier); ±10% (bypass)				
Frequency and range		50/60 Hz, 45 to 65 Hz			
Power factor	0.99				
Current distortion (THDi)		<	3%		
utput					
Connection type	Hardwired 4w				
Nominal voltage		380/400/415 Vac 3-phase with neutral			
Frequency	50/60 Hz				
Voltage regulation	Static: ±1%;				
	dynamic: IEC/EN 62040-3 Class 1				
Power factor	Up to 0.9, lagging or leading without power derating				
Overload capacity	Inverter: 125% for 10 min, 150% for 1 min, 199% for 10 s, 200% for 100 ms; bypass: 150% continuous, 1000% for 1 cycle				
Efficiency (AC/AC)*	Up to 98%				
Classification as per	Up to 98%				
IEC/EN 62040-3		VFI-S	S-111		
onnectivity and function extensior	15				
Front panel	Graphic display, mimic LED panel and keyboard, local EPO				
I	Incl		ut terminal block for: remote emerge	ency	
Remote communication	power off (REPO), battery circuit breaker aux. cont., external maintenance bypass circuit breaker aux. cont., diesel mode aux. contact. Optional: SNMP adapter (Ethernet), Web interface (Ethernet), ModBus-TCP/IP (Ethernet); ModBus-RTU (RS485); ModBus-RTU to PROFIBUS DP adapter; SPDT contact relay board; remote system monitoring panel; UPS managing and server shutdown software				
Optional function extensions	Isolation transformer; transformers/autotransformers for voltage adjustment; maintenance bypass switch in extended cabinet or wall-mounted box; custom battery cabinets; wall-mounted battery fuse switch box; battery thermal probe; parallel kit; top cable entry; load-sync for single UPS and load-sync box (2 UPS systems); other options on request				
ystem					
Protection degree	IP 20 (other options)				
Colour	RAL 7016 (other options)				
Installation layout	Wall, back to back and side by side installation allowed				
Accessibility	Front and top access, bottom cable entry				
according to IEC/EN 62040-3					
Other features					
	e 0°C to +40°C				
Operating temperature range	·		0°C to +70°C		
Storage temperature range				100 -	
Altitude (AMSL)	< 1000 m without power reduction, > 1000 m with reduction of 0.5% per 100 m			per 100 m	
Audible noise at 1 m (dBA)	<62				
andards and certifications					
Quality assurance, environment, health and safety		ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007			
Safety		IEC/EN 62040-1			
	EMC		IEC/EN 62040-2		
EMC			IEC/EN 62040-4		
EMC Environmental aspects		IEC	C/EN 62040-4		
			C/EN 62040-4 C/EN 62040-3		
Environmental aspects		IEC			



OMG60100revD - 03-2018 - Due to our policy of continuous development, data in this document is subject to change without natice and becomes contractual only after written confirmation