

B9600FXS Uninterruptible Power Supply 3ph from 400 to 800 kVA

Applications

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

Highlights

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



B9600FXS

Uninterruptible Power Supply

3ph 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

Nominal power (kW)360450540Dimensions WxDxH (mm)1990x990x19202440x990x20202440x990x2020UPS weight (kg)182022202400Battery configurationExternal, 300 to 312 cells, VRLA (other options)InputConnection typeHardwired 3w (rectifier), 4w (bypass)400 Vac 3-phase (rectifier)Nominal voltage380/400/415 Vac 3-phase with neutral (bypass)Voltage tolerance-20%, +15% (rectifier); ±10% (bypass)Frequency and range50/60 Hz, 45 to 65 Hz	720 3640x990x1920 3600	
Dimensions WxDxH (mm) 1990x990x1920 2440x990x2020 2440x990x2020 UPS weight (kg) 1820 2220 2400 Battery configuration External, 300 to 312 cells, VRLA (other options) Input Connection type Hardwired 3w (rectifier), 4w (bypass) Nominal voltage 380/400/415 Vac 3-phase with neutral (bypass) Voltage tolerance -20%, +15% (rectifier); ±10% (bypass)	3640x990x1920 3600	
UPS weight (kg) 1820 2220 2400 Battery configuration External, 300 to 312 cells, VRLA (other options) Input Connection type Hardwired 3w (rectifier), 4w (bypass) 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	3600	
Battery configuration External, 300 to 312 cells, VRLA (other options) Input Hardwired 3w (rectifier), 4w (bypass) Connection type Hardwired 3w (rectifier), 4w (bypass) Nominal voltage 400 Vac 3-phase (rectifier) 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		
Input Hardwired 3w (rectifier), 4w (bypass) Connection type Hardwired 3w (rectifier), 4w (bypass) Nominal voltage 400 Vac 3-phase (rectifier) 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		
Connection type Hardwired 3w (rectifier), 4w (bypass) Nominal voltage 400 Vac 3-phase (rectifier) 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		
Aug Aug Nominal voltage 400 Vac 3-phase (rectifier) 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		
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		
Voltage tolerance -20%, +15% (rectifier); ±10% (bypass) Frequency and range 50/60 Hz 45 to 65 Hz		
Frequency and range 50/60 Hz 45 to 65 Hz		
Power factor 0.99		
Current distortion (THDi) <3%		
Dutput		
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		
Overland 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 IEC/EN 62040-3		
Connectivity and function extensions		
Front panel Graphic display, mimic LED panel and keyboard, local EPO		
Remote communication Remote communication Remote communication Power off (REPO), battery circuit breaker aux. cont., external maintenance circuit breaker aux. cont., diesel mode aux. contact. Optional: SNMP adapter (Ethernet), Web interface (Ethernet), ModBus- (Ethernet); ModBus-RTU (RS485); ModBus-RTU to PROFIBUS DP adap SPDT contact relay board; remote system monitoring panel; UPS managing and server shutdown software	ə bypass ICP/IP ıter;	
Optional function extensions Defined functio	ment; e switch box; on request	
iystem		
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 invironmental		
Operating temperature range 0°C to +40°C	0°C to +40°C	
Storage temperature range -10°C to +70°C	-10°C to +70°C	
Altitude (AMSL) < 1000 m without power reduction, > 1000 m with reduction of 0.5	% per 100 m	
Audible noise at 1 m (dBA) <62	<62	
tandards and certifications		
Quality assurance, environment, health and safety	007	
Safety IEC/EN 62040-1		
EMC IEC/EN 62040-2		
Environmental aspects IEC/EN 62040-4		
Test and performance IEC/EN 62040-3		
Protection degree IEC 60529		
Marking CE	CE	



Included