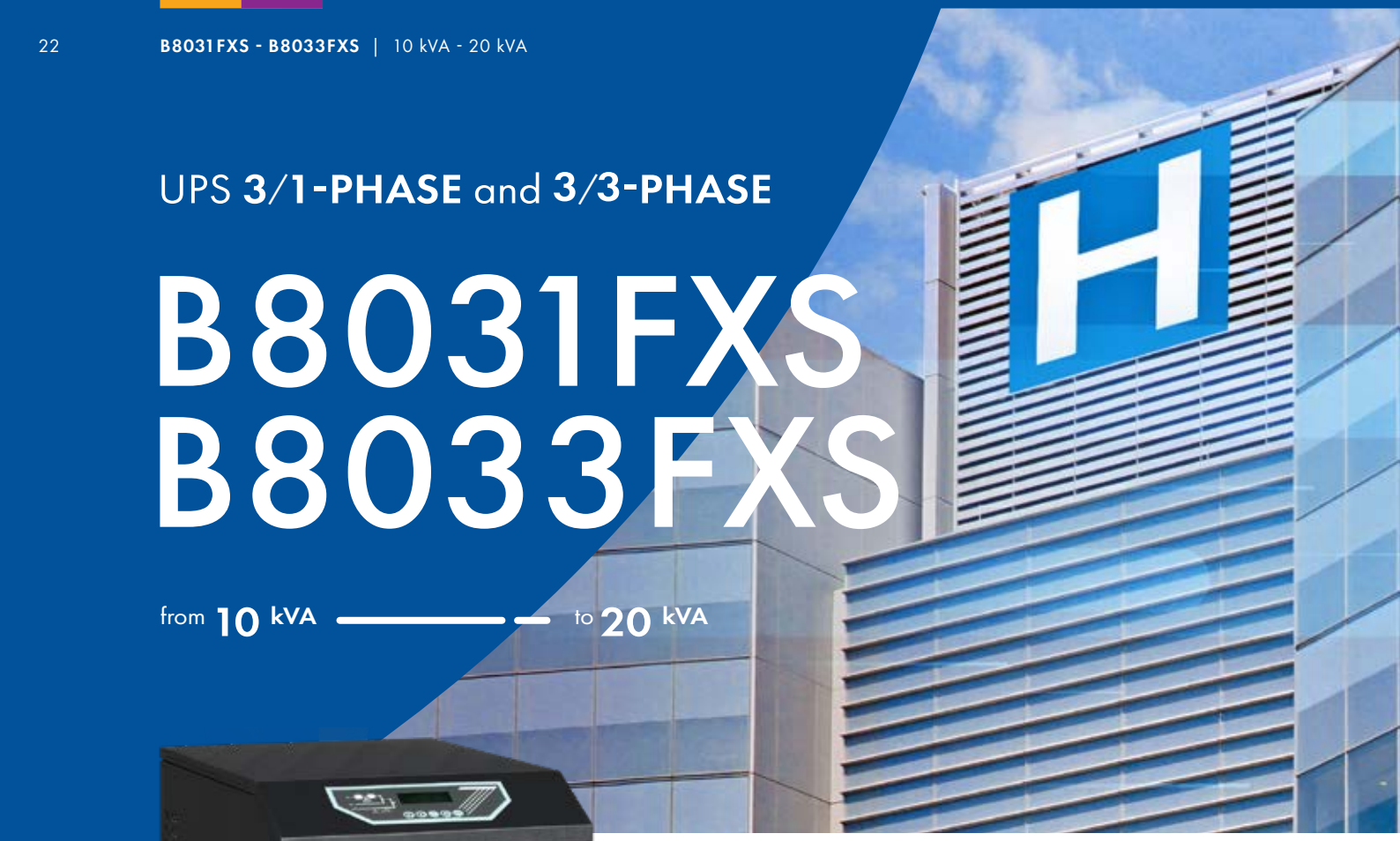


UPS **3/1-PHASE** and **3/3-PHASE**

# B8031FXS
# B8033FXS

from **10 kVA** to **20 kVA**

## Applications

Network & Server

Industrial controls & process automation

Medical equipment

Building automation

### Robust and compact

Full IGBT technology providing smooth sinusoidal input current cuts all upstream oversizing costs.

### Low running costs

High efficiency and ECO mode reduce overall power losses and thus energy costs.

### Easy to install and maintain

Removable power modules and simple handling for low installation and mean time to repair.

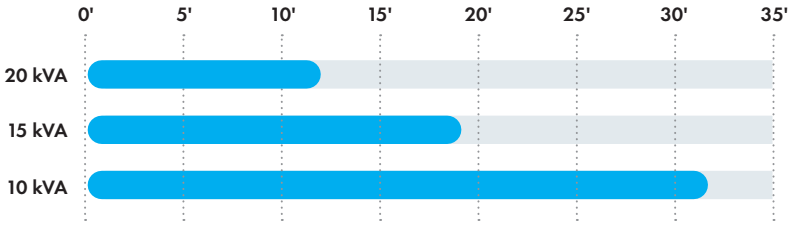
Robust, customisable and easy-to-maintain UPS, available as either 3-phase in/1-phase out or 3-phase in/3-phase out. B8031 FXS and B8033 FXS series is suitable for server rooms, IT equipment, industrial controls, medical equipment and process automation.

# **B8031FXS - B8033FXS**: featuring extremely small dimensions and one of the smallest footprint in its range.

## Features and benefits

- High double conversion efficiency and ECO 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 low THDi for maximum upstream sources compatibility.
- Wide range of configurations with internal batteries for low TCO compact solutions.
- High power battery charger, suiting long autonomy applications.
- 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.
- Comprehensive set of communication options for total remote monitoring of equipment operation.
- Included bypass contactor for complete backfeed protection and operators' safety without additional installation costs.
- Fully compliant with all international product standards for maximum quality guarantee.

## Back up time wth internal batteries




## 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 redundant up to 6 units for system redundancy
- Load-sync option.
- Input terminals for remote EPO, external manual bypass auxiliary contact, diesel mode.
- Separate bypass input for B8033FXS.

## B8031FXS - B8033FXS technical data

| **Rating (kVA)** | **10** | **15** | **20** |
|---|---|---|---|
| **Nominal Power (kW)** | **9** | **13.5** | **18** |
| UPS dimensions WxDxH (mm) | 450x640x1200 | | |
| UPS weight (kg) | 100 | 110 | 110 |
| UPS weight with internal battery (kg) | 247 | 257 | 257 |
| External battery module dimensions WxDxH (mm) | 500x640x1200 | | |
| Battery configuration | Internal or external, 360 to 372 cells, VRLA (other options) | | |
| Max autonomy with int. battery 70% load (min) | **32** | **19** | **12** |

| **Input** | **B8031FXS (10-15-20 kVA)** | **B8033 FXS (10-15-20 kVA)** |
|---|---|---|
| Connection type | Hardwired 4w (rectifier), 2w (bypass) | Hardwired 4w |
| Nominal voltage | 400 Vac 3-phase with neutral (rectifier)<br>220/230/240 Vac 1-phase (bypass) | 400 Vac 3-phase with neutral (rectifier)<br>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) | <4% | |

| **Output** | **B8031FXS (10-15-20 kVA)** | **B8033 FXS (10-15-20 kVA)** |
|---|---|---|
| Connection type | Hardwired 2w | Hardwired 4w |
| Nominal voltage | 220/230/240 Vac 1-phase | 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, without power derating | |
| Overload capacity | Inverter: 125% for 10 min, 150% for 30 s, >150% for 10 s ; Bypass: 150% continuous, 1000% for 1 cycle | |
| Efficiency (AC/AC)* | Up to 98% | |
| Classification by IEC/EN 62040-3 | VFI-SS-111 | |

| **Connectivity and function extensions** | |
|---|---|
| Front panel | Graphic display, mimic LED panel and keyboard, local EPO |
| Remote communication | **Included:** serial RS232 and USB; terminal block for battery breaker auxiliary contact.<br>**Optional:** input terminal block (remote emergency power off, external maintenance bypass circuit breaker aux. cont., diesel mode aux. cont.); SNMP adapter (Ethernet), Web interface (Ethernet), ModBus-TCP/IP (Ethernet), ModBus-RTU (RS485), from 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; external maintenance bypass; custom battery cabinets; wall-mounted battery fuse switch box; battery thermal probe; parallel kit, load-sync for single UPS; other options on request |

| **System** | |
|---|---|
| Protection degree | IP 20 |
| Colour | RAL 7016 |
| Installation layout | 10 cm wall-gap, side by side installation allowed |
| Accessibilty | Front and top access, bottom cable entry |

*according to IEC/EN 62040-3

## Other features

| **Environmental** | |
|---|---|
| UPS operating temperature range | 0°C to +40°C |
| UPS storage temperature range | -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) | < 52 |

| **Standards and certifications** | |
|---|---|
| Quality assurance, environment, health and safety | ISO 9001:2015, ISO 14001:2015, BS OHSAS 18001:2007 |
| Safety | IEC/EN 62040-1 |
| EMC | IEC/EN 62040-2 |
| Environment aspects | IEC/EN 62040-4 |
| Test and performance | IEC/EN 62040-3 |
| Protection degree | IEC 60529 |
| Marking | CE |