

## ELBA SERIES

Modular UPS from 10 to 400 kVA



### Description

ELBA series is modular and online double conversion UPS from 10 kVA to 400 kVA are high-performance systems designed to supply high-quality power on a permanent basis for sensitive equipment.



ELBA series combines the latest IGFB three-level technology with DSP control arithmetic. Along with high input power factor, low THD and high system efficiency achieves very high adaptability for all kinds of load. The modular designs ensures reliable and power expansion is very easy to achieve by connecting frames in parallel in order to reach maximum 400 kVA power.



Elba series

### Features

- > Modular design, hot-swappable
- > Rectifier/Inverter: three-level control technology
- > Strong load adaptability for linear and nonlinear load
- > Intelligent module and system protection design
- > Incredible low noise system design
- > Double DSP controller for individual power module
- > Total digital control: rectifier, inverter, charger and discharger
- > Output power factor 0.8 (0.9 optional)
- > High efficiency >95%
- > Inbuilt power distribution for input and output connection
- > Large touch screen LCD with plenty of information
- > Independent charger for batteries, intelligent battery management system
- > Digital paralleling technology
- > Totally front access, top and bottom cable connection
- > Each individual module is configured with independent controller, avoid single point failure risk
- > ECO mode selectable
- > SNMP communication card (optional)
- > Parallel option of complete systems (optional)

domestic use

network

data centers

medicine

telecommunications security

industrial



**CONFIGURATION OPTIONS**

Model	ELBA								
Modules description									
Modules	10 K			15 K			20 K		
Nominal power	10 kVA			15 kVA			20 kVA		
Power factor	0.8/0.9 (optional)								
Modules weight	20 kg			21 kg			22 kg		
Dimensions	440x600x134 mm								
Cabinets description									
Power range	10-60 kVA			10-120 kVA			10-200 kVA		
Max. n° of modules	3			6			10		
Available configurations	3x10 kVA	3x15 kVA	3x20 kVA	6x10 kVA	6x15 kVA	6x20 kVA	10x10 kVA	10x15 kVA	10x20 kVA
Cabinet max power	30 kVA	45 kVA	60 kVA	60 kVA	90 kVA	120 kVA	100 kVA	150 kVA	200 kVA
Cabinet dimensions	600x900x1200 mm			600x900x1600 mm			600x900x2000 mm		
Cabinet weight	120 kg			151 kg			182 kg		
Parallel option	Up to 3 cabinets						2 cabinets		

**GENERAL**

Technology	IGTB three-level technology with DSP control								
Efficiency	Normal mode: 95% / ECO mode: 99% / Battery mode 95%								
Overload	110%, transfer to bypass after 1 hour / 125%, transfer to bypass after 10 minutes 150%, transfer to bypass after 1 minute / >150%, transfer to bypass after 200 ms								

**INPUT**

Input voltage	380V/400V/415V (configurable) ±1%								
Input power factor	≥0,99								
Frequency	50/60Hz (configurable)								
THD	<3%								

**OUTPUT**

Voltage	380V/400V/415V (configurable)								
Output frequency	50/60Hz (configurable)								
THD	THD<2%(linear load), THD<5%(nonlinear load)								
Crest factor	3:1								

**BATTERIES & BACKUP TIME**

Battery voltage	±240 VDC								
Standard battery	Pb VRLA (lead battery with anti-leak seal)								
Backup time	Up to many hours (depending on connected load)								

**BYPASS**

Bypass voltage	380V/400V/415V (configurable)								
Bypass voltage window	±20%, full load, settable								

**INDICADORES**

LCD display	LCD+LED / Touch screen and keyboard / Operation mode/ Battery status and voltage/ Input and output voltage measurement / Input and output frequency measurement/ Supplied power								
Leds	Mains on, UPS failure, overload, low battery, inverter, bypass								
Acoustics	Main failure, overload, low battery								

**COMMUNICATIONS**

Control software	UPSilon 2000								
Communications	RS232, RS485, Dry contacts, EPO, Generator interface, SNMP card (optional)								

**STANDARDS**

Mark	CE								
Directives	EN 62040-1, EN 62040-2 (EMC)								

**OTHERS**

Operation temperature	0-40°C								
Relative humidity	0-95% (non-condensing)								
Altitude without decreasing power	1000 meters over sea level								
Acoustic level	<55dB								

\* External batteries, consult weights and dimensions for different backup times.

Specifications may be changed without notice.