

UPS SERIES SAURUS 60 - 200 kVA

ONLINE DOUBLE CONVERSION



UPS THREE-PHASE WITH EXPANDABLE MODULAR STRUCTURE

The Saurus three-phase UPS (60-200kVA) are range of three-phase expandable online UPS, double conversion tower UPS in powers starting from 60kVA up to 200kVA.

The UPS Saurus series uses a centralized modular design, allowing future expansion of the UPS.

Saurus UPSs are available in three sizes, fixed power 60kVA, from 80 to 120kVA and from 160kVA to 200kVA. Thanks to the inverter's 3 IGBT levels, the UPS guarantee efficiency up to 97% and a unitary output power factor. They are directly configurable from the display, with ample flexibility in the number of batteries and high overload capacity. The innovative self-cleaning function reduces the risk of dust accumulation on the boards. The system includes the free contact card for alarms.

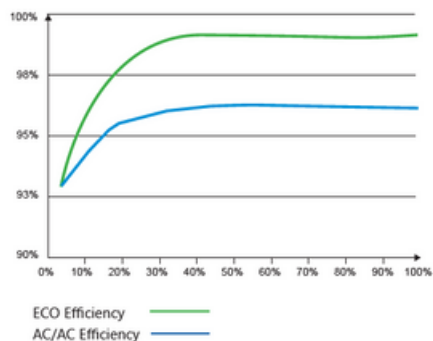
MAIN APPLICATIONS

ALBAT'S UPS Series Saurus 60-200 kVA represents a perfect solution for a wide range application in the:

- Data Center
- Health Care
- Transport
- Industry
- Server

EFFICIENCY AND FLEXIBILITY

- Output power factor equal to 1
- Maximum AC/AC efficiency up to 97%



- Innovative three-level IGBT technology integrated in the inverter section
- Expandable in power directly on site and from the display
- Shared batteries for parallel systems, a single battery pack for two N+1 UPS



CONTACT:

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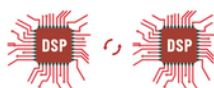
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EFFICIENCY AND FLEXIBILITY

- Battery Configurations:
from 28 to 48 monoblocks (±168~±288Vcc)
- ECO mode with efficiency up to 99%, configurable from the display
- Possibility of parallel installation (redundant or power) up to 1.6MW
- Advanced control with double redundant DSP

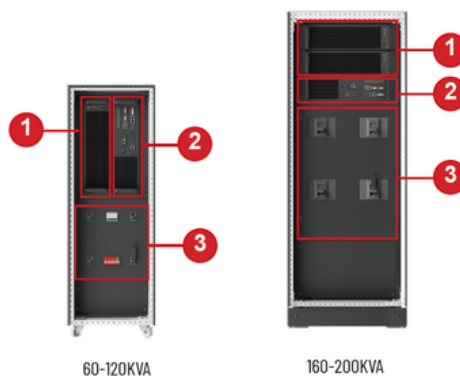


- Fully tropicalized electronic cards
- Display available in 7 languages
- Intelligent fans with high efficiency cooling, multiple modes to control their speed, extend their life and improve their efficiency



Automatic fan control

MODULAR STRUCTURE



- 1 • Power unit capacity 60kW | 80-120kW | 160-200kW
- 2 • Bypass and control unit including RS485, Modbus and programmable dry contact
- 3 • Power distribution unit with terminal block: Input, Output, Bypass and Battery

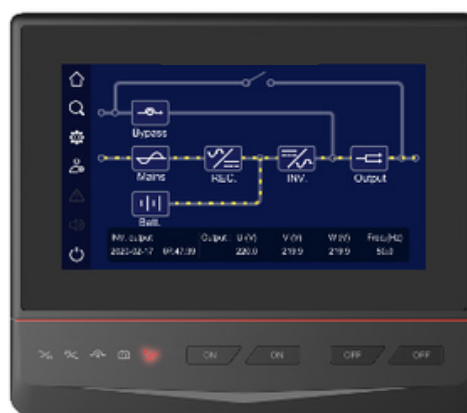
COMPUTERIZED MONITOR TOUCH-SCREEN

60-80-100-120KVA



Display 4.3" Inches

160-200KVA



Display 7" Inches

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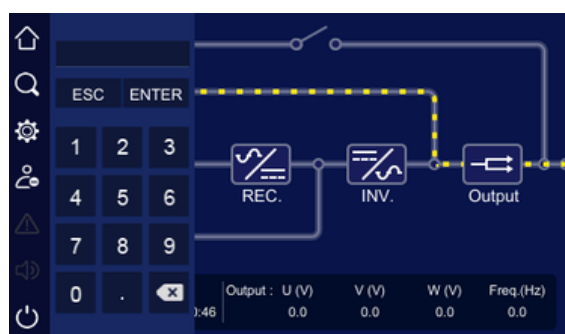
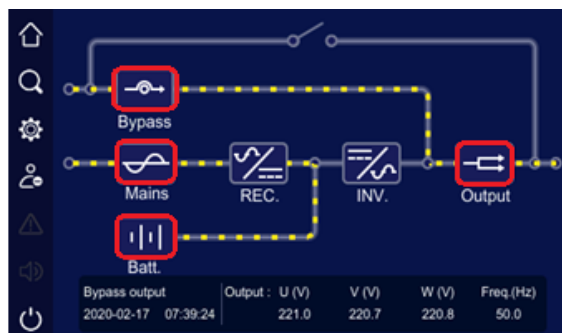
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SETTINGS FROM DISPLAY

- Access to the menu via different password levels (User, Technician and Manufacturer)
- Configuration for input, output, bypass, batteries, communications, language and operating modes
- Periodic self-cleaning function, to expel impurities and reduce the risk of breakdowns
- Large memory up to 10,000 events downloadable via the USB port integrated in the UPS
- Advanced communication for installation and operation with diesel generators
- Alarms from clean contact card, configurable from display
- Periodic graphic recording of inverter, rectifier and control waveforms



TOUCH-SCREEN DISPLAY WITH LED COLORED BAR



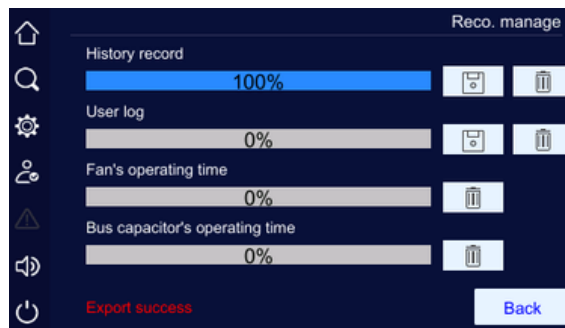
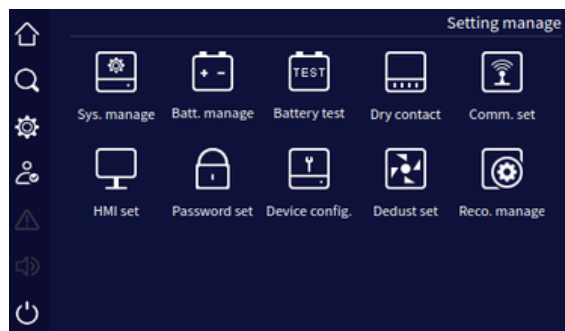
Normal Mode



Bypass Mode



Warning Mode



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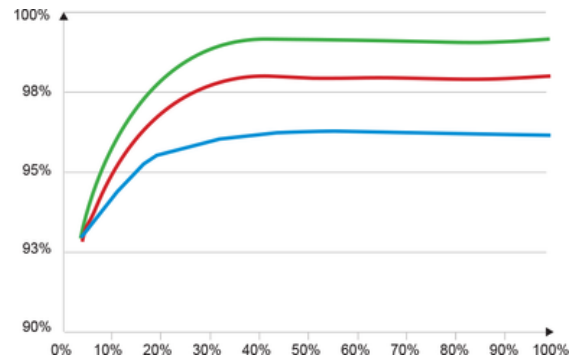


SMART-SLEEP PARALLEL INTELLIGENCE

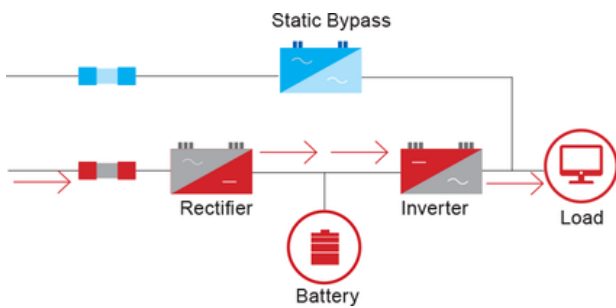
30% load
95% efficiency



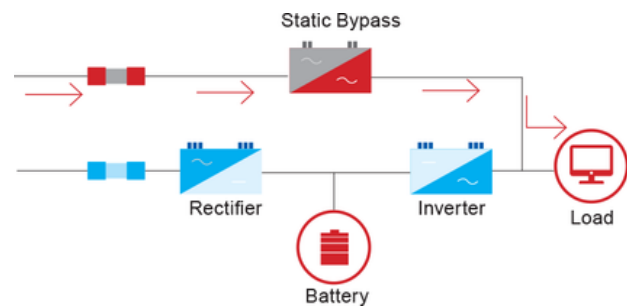
60% load
96,5% efficiency



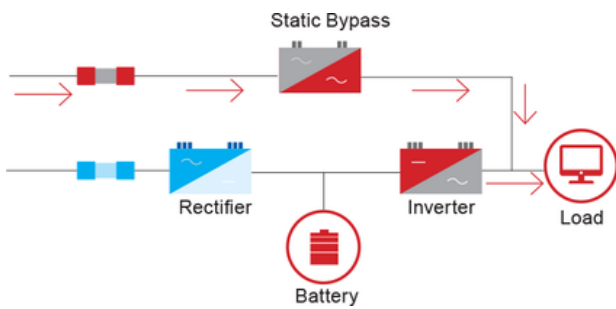
OPERATING MODES



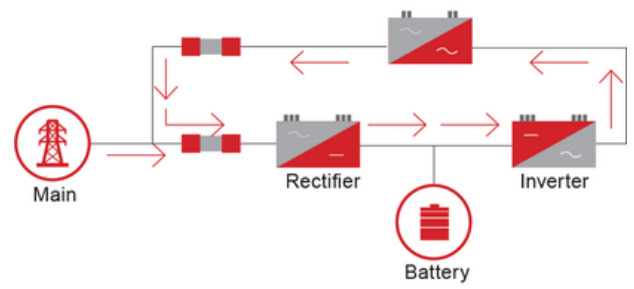
Double Conversion Mode



ECO Mode



W-ECO Mode



Self-Load Test Mode

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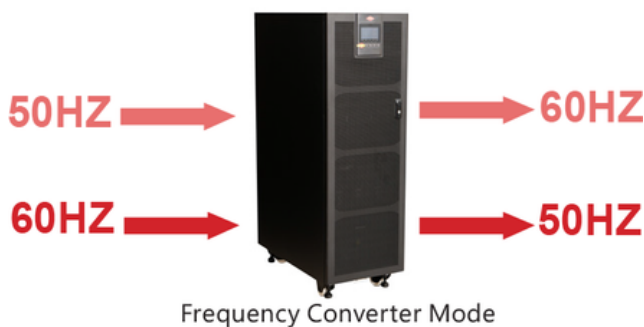
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FREQUENCY CONVERTER

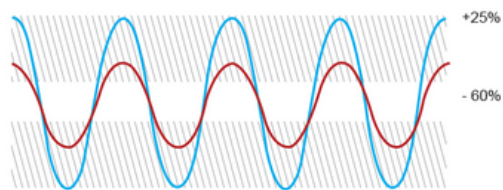
- 50Hz-60Hz or 60Hz-50Hz converter mode
- Possibility of disabling the static bypass and the DC power supply of the inverter



Frequency Converter Mode

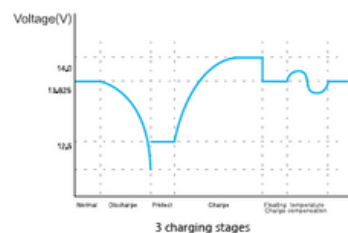
EXCELLENT PERFORMANCE

- Efficiency higher than 95% even at low loads
- Maximum output tolerance, ability to operate with 100% unbalances loads
- Double input with wide tolerance, compatible with diesel generators



Three-phase power supply range

- Advanced 3-stage battery charging and maintenance system



- Redundant and hot extractable power modules (rectifier and inverter)
- Centralized bypass module with battery start button

MORE OPTIONS

- Flexible Network Management: SNMP
- Expanded dry contact kit (4 in 4 out)
- BMS kit for lithium battery communication
- Intelligent Battery Monitoring System
- Battery tripping kit
- N+X in parallel
- Input and output isolation transformer
- SPD: C Grade
- Battery Charge Temperature Compensation



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UPS ACCESSORIES



SNMP Card



External maintenance bypass



Dry Contact Card

TECHNICAL SPECIFICATIONS

MODELS	SAURUS 60	SAURUS 80	SAURUS 100	SAURUS 120	SAURUS 160	SAURUS 200
INPUT						
VOLTAGE	380/400/415 (138-485 L-L) Vac					
FREQUENCY	40-70 Hz					
BYPASS VOLTAGE	-20 (-10/-15/-30 selectable) / +15% (10/20/25 selectable) Vac					
POWER FACTOR	≥0,99					
THDI	≤3 %					
PHASES	3+N+PE					
OUTPUT						
POWER	60	80	100	120	160	200
POWER FACTOR	1					
VOLTAGE	L-N: 220/230/240±1%; L-L: 380/400/415±1% Vac					
FREQUENCY	50/60±0,1 Hz					
PHASES	3+N+PE					
THD	THDv<1% at linear load, THDv<3% at non-linear load					
VOLTAGE STABILIZATION	≤2% at full unbalanced load					
WAVEFORM	Pure sine wave					
EFFICIENCY	97%					
OVERLOAD	≤130%: long run; 130%< load ≤150%: 5min; 150%< load ≤200%: 1s; 200%< load ≤300%: 100ms; >300%: immediately.					
BATTERIES						
BATTERIES VOLTAGE	±168 - ±288 adjustable					
STANDARD BATTERIES CONFIGURATION	External					
MAX. CHARGING CURRENT	30 A			60 A		
OTHER SPECIFICATIONS						
COMMUNICATIONS	RS485, MODBUS, Free Contact Card (SNMP optional)					
DISPLAY	Touch screen+LED					
ALARMS	Low batteries, Anormal input, Overload, Block/Fault ecc.					
PROTECTION	Low batteries, Overload, Short-circuit, Over-temperature ecc.					
NOISE	<65 dB					
TEMPERATURE	0 - +40 °c					
HUMIDITY	0 - 95%					
DIMENSIONS (LXWXH)	400x960x1200 mm			600x1000x1600 mm		
WEIGHT	145 kg	161 kg	171 kg	372 kg	320 kg	
CERTIFICATES						
STANDARDS	CE (Reference standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; Classification IEC EN 62040-3)					

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