

DESIGN – PRODUCTION – SALES – ASSEMBLY – SERVICE
RENEWABLE AND DC&AC RESERVE
BACKUP POWER SUPPLY SYSTEMS

UPS SERIES SAURUS MOD 25 – 600 kVA/kW ONLINE DOUBLE CONVERSION



Let`See What We Do?

The SAURUS MOD series modularized 3-Phase in, 3-Phase out UPS utilizes advanced 3 level inverter technology, a more reliable redundancy design from the entire system down to the components, and digital technology interconnection. It has the advantages of high efficiency, high power density, easy scaling, scaling on demand, and occupies only a small amount of floor area and provides safe, reliable, and clear environmentally friendly power to loads.

ALBAT'S UPS series SAURUS represents a perfect solution for a wide range application in the:

- Data Cente,
- Home/Office,
- Transport,
- Industry,
- Emergency.

Main Features:

- Modular UPS,
- Output Power Factor 1,
- Output power of Module 25kVA/kW, 50kVA/kW
- All HOT-SWAPPABLE function,
- Fully settable from display on site,
- High input power factor up to $\geq 0,99$,
- Low THDi: $< 5\%$,
- Redundancy N+1
- Complete Protective Functions and Failure Warning:
 - Component failure pre-warning function, nips the problem of system failure and associated risks at the bud,
 - Smart battery disconnection detection and battery circuit, abnormality warnings reduce operation and maintenance costs and risks.

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Made by EU components

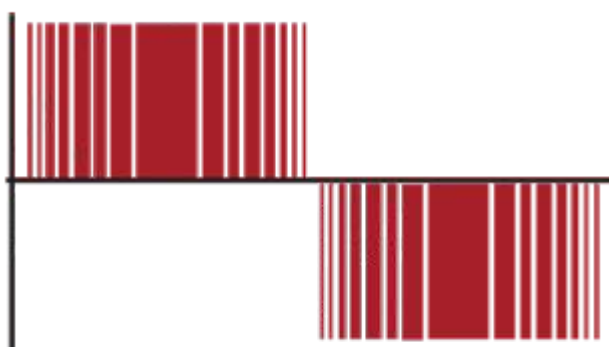
OUR POWER FOR THE BETTER FUTURE



- Synchronized and Unhindered, Guaranteed Safety:
 - Has BSC output to solve the problem of unsynchronized power input;
 - Pure digital technology; powerful anti-interference capabilities provides quality power to loads.
 - High Power Density, Optimized Structural Configuration
 - Large 320kVA capacity for a single cabinet; occupies only 0.5 square meters of floor space, optimized structure design greatly reduces floor space usage and land investment costs;
 - Has cable entry on the top of the cabinet to satisfy different scenarios;
 - Host and battery equipped with protective mechanisms for reliable double layered protection;
 - Module terminal uses carefully selected high strength material to ensure module reliability and hot swapping.

Environmentally Friendly Energy Saving Design:

- Uses the latest IGBT rectifying technology with ultra-low input harmonics; eliminates power grid pollution, reduces power factor compensation and harmonic control costs and reduces wire attenuation. Protects the load as well as the power grid at the same time,
- Input power factor is close to power factor; improved energy utilization and reduced UPS front-end power distribution costs and client investment costs.



**TWO LEVEL OUTPUT
VOLTAGE WAVEFORM**

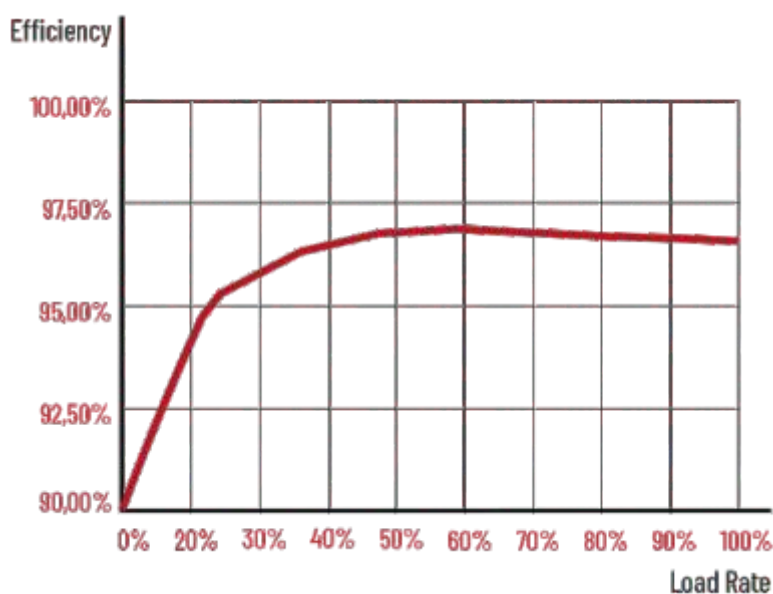


**THREE LEVEL OUTPUT
VOLTAGE WAVEFORM**

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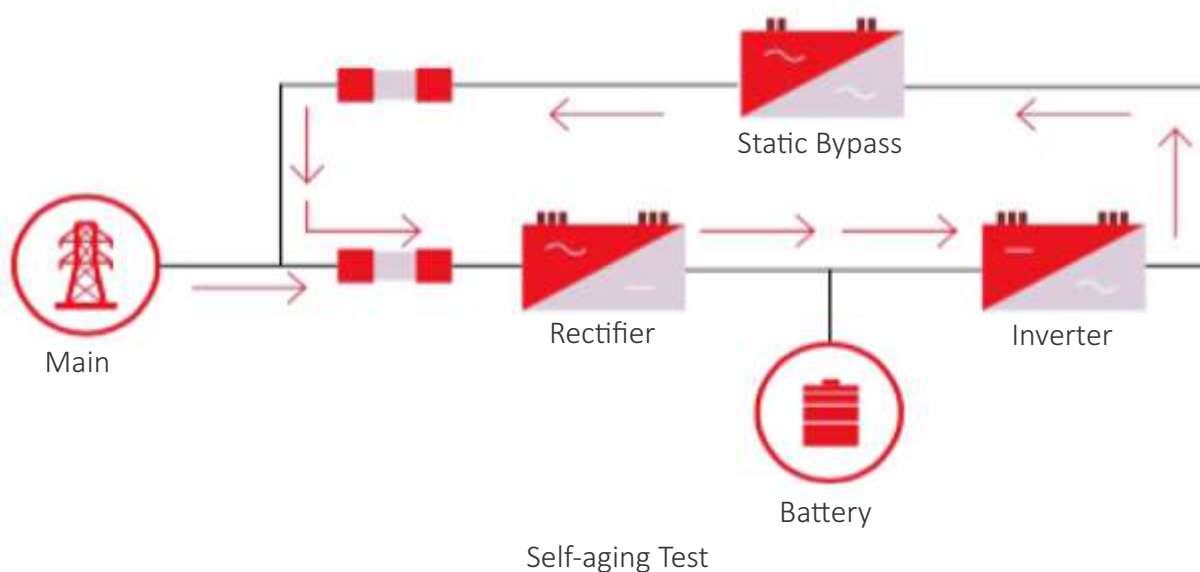
Outstanding Metrics, Improved Efficiency:

- Overall system efficiency of up to 96% with great energy savings (heat from the UPS and cooling energy consumption), reduced operation costs,
- Default power factor of 1.0; greater power output for the same price; better cost effectiveness and complies with the developing trend of increasing power factor for IT products,
- When the power quality from the mains grid is high, ECO mode can be used to provide power to the load. Overall system efficiency can reach up to 99% resulting in significant energy savings.



Highly Efficiency Rotating Module Sleeping:

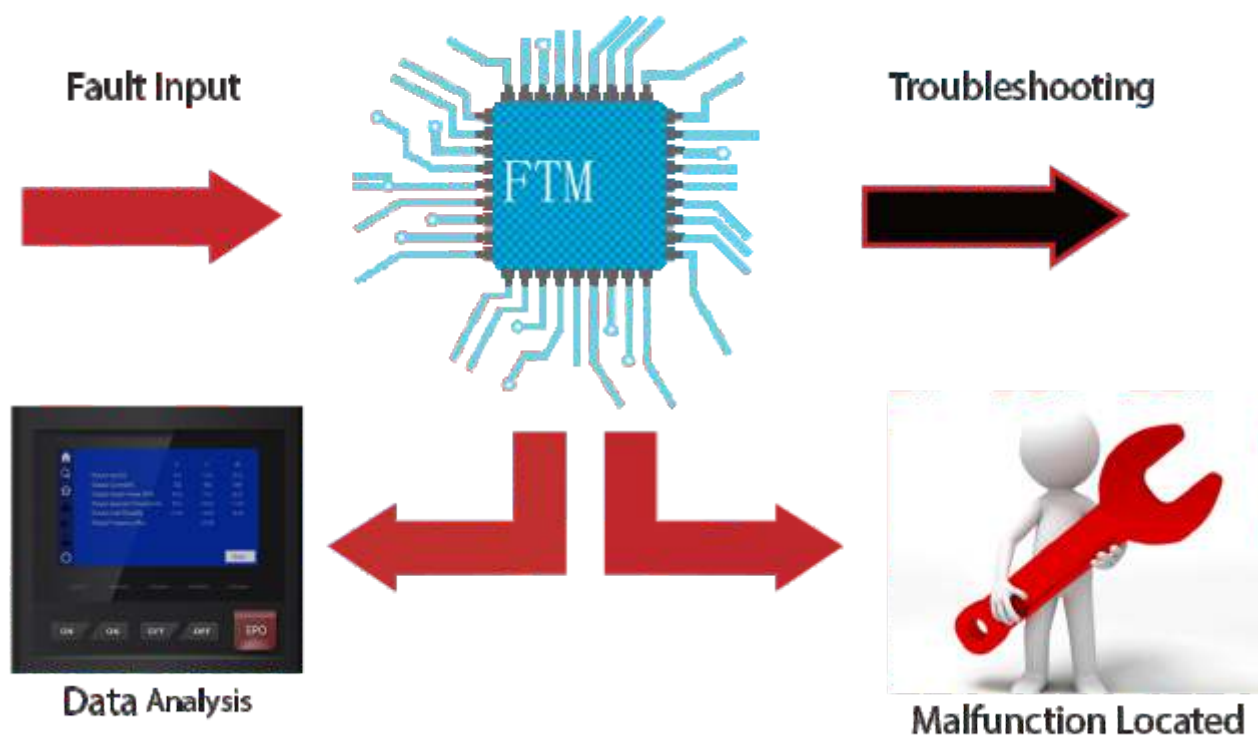
- Module sleep technology improves operation efficiency and reduces operation costs,
- Maintenance cycle effectively extends battery life and improves overall system efficiency.



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Full Digital Connection, Flexible Online Scaling:

- Advanced dual DSP control technology; accurate and fast data processing; optimized circuit design; fast fault self-diagnosis and repair capabilities; higher reliability;
- Online capacity scaling available without the need for additional attachments to implement N+X parallel connection. The system has the parallel redundancy and parallel capacity scaling modes making application much more flexible and compatible with more parallel connections;
- Safe and reliable digitalized digital parallel uniform stream technology; more balanced parallel loads ensures quality power is delivered to high demanding IT equipment and ensures safe operation of user equipment.



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Power Grid Adaptability:

- Prevents frequent switching between power grid and battery power and extends battery life;
- Smart generator control gives a better generator configuration and control solution for better compatibility.



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Technical Specifications:

Models		SAURUS MOD 125	SAURUS MOD 200	SAURUS MOD 300
INPUT				
Voltage Vac		380 / 400 / 415		
Voltage range Vac		L:L 138 - 485		
Frequency Hz		40-70		
Bypass Voltage Range Vac		-15% (-20%/-30% optional) up to +15% (-10%/+20% optional)		
Power factor		≥0,99		
THDi		≲5% (nolinear, full load)		
Phase		3Φ4W+PE		
Battery Voltage Vdc		±192 (±180 up to ±276 settable)		±240 (±180 up to ±276 settable)
Charging current A		Nx10 Maximum (N: the number of power modules)		
OUTPUT				
Capacity kVA/kW		125	200	300
Power Factor		1		
Phase		3Φ4W+PE		
Wave form		Sine wave		
Voltage Vac		L-L: 380/400/415 ±1%		
Frequency Hz		50/60±0,2% (battery mode)		
Three phase difference		≤2 degrees		
THDV		≤1% (linear load, full load), ≤4% (nolinear load, full load)		
Max. system Efficiency		96,00%		
Parallel mode		Advanced no-master-slave parallel technology, N+1 redundancy		
Overload capacity		105-115% load for 60 mins, 116%-130% load for 10mins, 131%-150% load for 1 min, over 150% load transfer to bypass		
OTHERS				
Working temperature °C		0 up to +40		
Relative humidity		0% up to 95%, no condensation		
Noise dB		≲65	≲60	
Power module kW		25	50	
Power module dimension WxDxH mm		500x700x130		
Power module weight kg		32	33	
Dimension WxDxH mm		600x900x1400	600x860x2000	
Weight kg	UPS	162	224	236
	Bypass module	20	23	27
	Power module	32	33	
	Total	347	379	461

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Technical Specifications:

Models		SAURUS MOD 400	SAURUS MOD 500	SAURUS MOD 600
INPUT				
Voltage Vac		380 / 400 / 415		
Voltage range Vac		L:L 138 - 485		
Frequency Hz		40-70		
Bypass Voltage Range Vac		-15% (-20%/-30% optional) up to +15% (-10%/+20% optional)		
Power factor		≥0,99		
THDi		≤5% (nolinear, full load)		
Phase		3Φ4W+PE		
Battery Voltage Vdc		±240 (±180 up to ±276 settable)		
Charging current A		Nx10 Maximum (N: the number of power modules)		
OUTPUT				
Capacity kVA/kW		400	60	600
Power Factor		1		
Phase		3Φ4W+PE		
Wave form		Sine wave		
Voltage Vac		L-L: 380/400/415 ±1%		
Frequency Hz		50/60±0,2% (battery mode)		
Three phase difference		≤2 degrees		
THDV		≤1% (linear load, full load), ≤4% (nolinear load, full load)		
Max. system Efficiency		96,00%		
Parallel mode		Advanced no-master-slave parallel technology, N+1 redundancy		
Overload capacity		105-115% load for 60 mins, 116%-130% load for 10mins, 131%-150% load for 1 min, over 150% load transfer to bypass		
OTHERS				
Working temperature °C		0 up to +40		
Relative humidity		0% up to 95%, no condensation		
Noise dB		≤70		
Power module kW		50		
Power module dimension WxDxH mm		500x700x130		
Power module weight kg		33		
Dimension WxDxH mm		1200x860x2000		
Weight kg	UPS	427		
	Bypass module	27	31	31
	Power module	33		
	Total	718	788	873

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