STATRON

Statron's new generation online double conversion high-power UPS systems offer state-of-the-art technology, clean energy and high efficiency with very small footprint.

The IGBT rectifier technology reduces harmonic distortion and operating costs.

The adaptable system concept and a full range of options meet diverse requirements in power, backup time, harmonic control and enables a secure power solution for a wide range of applications, such as commercial processing systems, industrial automation, telecommunication and IT infrastructures.

UPS System

S7300 60–300 kVA / S8300 400–800 kVA

Standard features

- IGBT-rectifier and inverter with low THDi ≤3% (input)
- Online double conversion with output isolation transformer
- High online efficiency >94%
- Input power factor up to 0.99
- Active and reactive power control/phase
- User friendly display
- Internal manual bypass switch
- Very compact footprint
- RS232/485 and USB interface port
- Battery charger with wide DC range
- Automatic and manual battery test
- Front access
- CE mark

Options

- Dynamic online mode (efficiency up to 98%)
- Dynamic parallel mode up to 6 units (optimized unit efficiency)
- Programmable power restart (hold-off and walk-in time)
- Synchronisation bus for dual UPS configuration
- Communication options (potential free contacts, SNMP, MODBUS, facility management)
- Boost charge function for vented lead acid or nickel-cadmium batteries
- Input and/or bypass isolation transformers and stabilizer
- Backfeed protection
- Battery temperature compensation
- Diesel generator operation
- External manual bypass switch
- AC input and output distributions
- Emergency Power Off (EPO)
- Other options on request

UPS System

S7300/S8300 – Application Areas

Power outages happen everywhere almost every week. When working near industrial plants or in populated areas, unwanted feedback into the power grid occurs. Harmonics and inrush currents from other equipment or large electric motors can cause undervoltages, overvoltages spike, etc. when loads are being switched or lightning strikes a transmission line causing disturbances to your critical equipment. The utility companies constantly regulate the mains voltage and frequency but not at your equipment input.

Disturbances in the power grid can damage sensitive equipment or affect it in their functionality. Critical applications need a clean reliable power under all conditions.

The benefit of an UPS is the elimination of mains disturbances and providing clean power to the connected critical systems. In case of a complete blackout, the UPS provides sufficient backup power for a safe shutdown or until a diesel generator can provide your power.

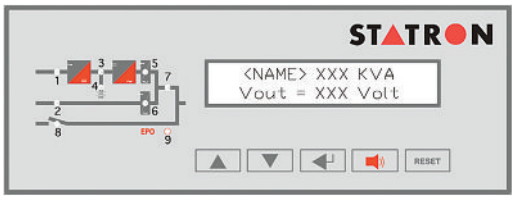
The S7300 and S8300 UPS Systems reduce the disturbance to the mains and protect connected equipment against the following disturbances:

Mains problems	Time	Example
1. Outage (blackouts)	>10 ms	
2. Sags/brownouts	<16 ms	
3. Dynamic overvoltage	4 …16 ms	
4. Undervoltage	continuous	
5. Overvoltage	continuous	
6. Transients (surges)	<4 ms	
7. Voltage distorsion (burst)	alternating	
8. Voltage distorsion	periodical	
9. Frequency variations	sporadic	
10. Lightning strikes	sporadic	

UPS System

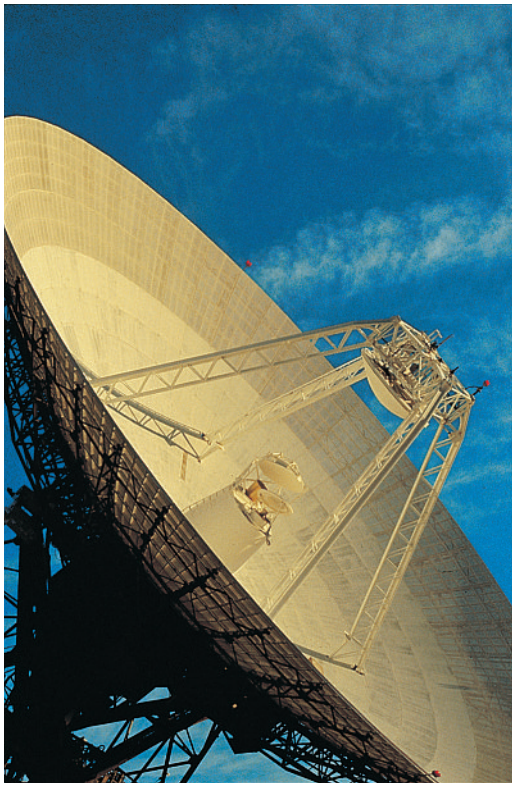
S7300/S8300 – Communication and Control

Human Machine Interface



State-of-the-art communication hardware and software monitors and controls the UPS providing you with immediate information when and where you need it.

- The complete system can be controlled via a single LCD display which provides real time status information and allows monitoring and control of the units.
- Active LED mimic and LCD display with clear alarm indication in text form and advanced self-diagnosis.
- Remote-monitoring via USB or SNMP-adapter (option).
- CAN-bus connection for parallel operation.
- Connection slots for MODBUS.
- Facility management options.



Service and Maintenance

Each UPS is built up from different parts (resistors, capacitors, batteries) which age under operation and cannot be serviced or replaced by end users. We offer maintenance service contracts for the UPS and the battery systems to guarantee lifelong security and availability of your power backup system reliability.

Our experienced service team provides commissioning, preventive maintenance and onsite repair all around the world, 24/7 365 days per year.

Please contact us for more information on how we can serve you.

UPS System

S7300/S8300 – Optimized Investment Cost

Long-term reliability

Statron's UPS Series S7300 and S8300 guarantees a low total cost of ownership with its high energy efficiency and low THD IGBT technology. The IGBT technology allows the S7300 and S8300 to reach an online efficiency of more than 94% and input power factor of >0.99 thus reducing energy costs.
The small footprint can also be counted when it comes to low TCO as it saves expensive space and can be put against a wall with easy service access.

For power increase or increased reliability (parallel redundant) up to 6 UPS can be connected up to a maximum capacity of 4800 kVA.

The maintenance and service costs are an important cost factor for all installations. These remain low with the S7300 and S8300 series as the units provide front access to all parts. Less parts and all front accessible provides a low Mean Time to Repair (MTTR) and high availability.

Batteries

Many years experience with industrial batteries and energy storage systems allow our engineers to help design the best solution from a complete range of technologies, optimized for any application like valve-regulated Lead Acid, Flooded Lead Acid or Nickel Cadmium Batteries.

Depending on the design concept, the UPS battery can be installed in an external battery cabinet or on a battery rack.

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UPS System

S7300 – Technical Specification

	3 ph Output							
Model	S7300-60	S7300-80	S7300-100	S7300-125	S7300-160	S7300-200	S7300-250	S7300-300
Power Rating (pf = 0.8 ind.)	**60 kVA**	**80 kVA**	**100 kVA**	**125 kVA**	**160 kVA**	**200 kVA**	**250 kVA**	**300 kVA**
Nominal output power (p.f. 1)	48 kW	64 kW	80 kW	100 kW	128 kW	160 kW	200 kW	240 kW
Dimension (mm, W × D × H)	815 × 820 × 1670					1200 × 860 × 1900		
Weight (kg, without battery)	570	600	630	662	720	870	1020	1200
Efficiency (AC-AC, online)	>94%							
Ambient conditions	0–40 °C non condensing; 1000 m a.s.l. without derating							
Audible noise	<60 db(A)–160 kVA; <62 dB(A) 180–300 kVA							
EMC compatibility	IEC/EN 62040-2							
Design standards	IEC 62040							
Input								
Input voltage (3 ph + N)	400 VAC (+10%/–20%), 50/60 Hz (45–65 Hz)							
Input power factor	>0.96							
Input harmonic current distortion	<3%							
DC-circuit								
Number of cells	300 (lead acid battery)							
Battery voltage	600 VDC nom.							
Output								
Output voltage (3 ph + N)	380–415 VAC 3 × 380/220 – 400/230 – 415/240 V							
Output voltage stability – static – 100% unbalanced load	 ±1% ±2%							
Frequency	50 Hz/60 Hz ±0.01%							
Short circuit characteristic	electronic short circuit protection							
Crest factor (non-linear load)	3:1							
Quality/Environment	ISO 9001:2008; ISO 14001							

Further data available on request

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UPS System

S8300 – Technical Specification

	3 ph Output			
Model	**S8300-400**	**S8300-500**	**S8300-600**	**S8300-800**
Power Rating (pf = 0.8 ind.)	**400 kVA**	**500 kVA**	**600 kVA**	**800 kVA**
Nominal output power (p.f. 1)	320 kW	400 kW	480 kW	640 kW
Dimension (mm, W × D × H)	1990 × 952 × 1920	2440 × 952 × 2020	2440 × 952 × 2020	3400 × 952 × 2020
Weight (kg, without battery)	1820	2220	2400	3600
Efficiency (AC-AC, online)	>94%			
Ambient conditions	0–40 °C non condensing; 1000 m a.s.l. without derating			
Audible noise	<60 dB(A)			
EMC compatibility	Acc. EN 62040-2			
Design standards	IEC 62040			
Input				
Input voltage (3 ph + N)	400 VAC (+10%/–20%), 50/60 Hz (45–65 Hz)			
Input power factor	>0.99			
Input harmonic current distortion	<3%			
DC-circuit				
Number of cells	300 (lead acid battery)			
Battery voltage	600 VDC nom.			
Output				
Output voltage (3 ph + N)	380–415 VAC 3 × 380/220 – 400/230 – 415/240 V			
Output voltage stability – static – 100% unbalanced load	 ±1% ±2%			
Frequency	50 Hz/60 Hz ±0.01%			
Short circuit characteristic	electronic short circuit protection			
Crest factor (non-linear load)	3:1			
Quality/Environment	ISO 9001:2008; ISO 14001			

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