



**SEMI-INDUSTRIAL
UPS SYSTEM**

S7300/S8300

60–300 kVA/400-800 kVA

Key Features

- ▶ Online double conversion UPS with high efficiency
- ▶ Large power range 60-300 kVA or 400-800 kVA
- ▶ Input power factor <0,99
- ▶ Inverter output isolation transformer
- ▶ User friendly LCD Display
- ▶ Automatic and manual battery test
- ▶ Service access from the front and top
- ▶ Dynamic charge mode (DCM)

Operational Benefits

- ▶ High online efficiency >94,5%
- ▶ Highest reliability
- ▶ No reactive power consumption, low upstream costs
- ▶ Galvanic isolation between load and battery
- ▶ Easy operation across the entire product range
- ▶ Constant monitoring of the battery availability
- ▶ Compact design, reduced footprint
- ▶ Fast recharge of battery in partial load operation

S7300/S8300 – Reliable UPS for Semi-Industrial Applications

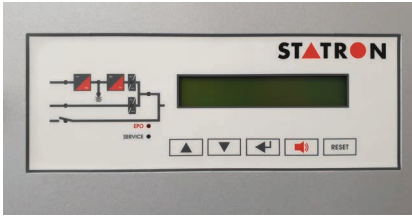
The S7300/S8300 is a robust UPS solution for all semi-industrial applications like data centres, production facilities, back-up systems in the health sector, banks, chemical processing units, public buildings, road tunnels or in other infrastructure systems. The compact UPS system S7300/S8300 is the reliable solution for all critical infrastructure.



Reliability through modern design

The S7300/S8300 UPS system is characterized by many advantages. These are for example:

- Online UPS with up to 95% efficiency; thus smaller cabinet size and reduced fan size.
- Output isolation transformer for galvanic DC-AC protection of industrial loads
- Rated output power factor 0.9
- IGBT rectifier technology, electronic PFC with input power factor >0.99 and THDi <3 %
- DCM (Dynamic Charge Mode) allows re-charging of the battery up to 5x faster
- User-friendly LCD display; easy operation and error analysis
- Direct status display based on single line diagram
- Service friendly - access only from the front necessary
- Various communication options for remote monitoring of the system
- Wide power range from 60 - 800 kVA, uniform system type with same spare parts



Modern Human Machine Interface

The LCD display of the S7300/S8300 facilitates a comprehensive and flexible human machine interface (HMI).

An easy and intuitive operation and control of the system is achieved through:

- Intuitive menu structure
- Different languages available
- Mimic diagram
- LED status indications



Includes many advantageous features in standard configuration

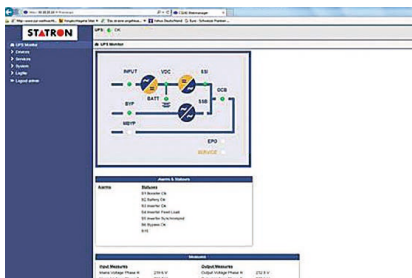
In contrast to the market standard, the S7300/S8300 system includes many advantageous features already in the standard configuration.

For example:

- RS232/USB interface
- External digital inputs
- Alarm relay card

Optional:

- Bypass isolation transformer
- Backfeed protection
- Temperature compensated battery charging



Remote communication

The S7300/S8300 systems offer various possibilities for the integration into over-lying control and monitoring systems. It offers various digital inputs.

These are:

- Remote emergency off
- External battery breaker
- External maintenance bypass breaker
- Generator operation

Optional communication parts are available, such as:

- SNMP (Ethernet) adapter
- Modbus-RTU (RS485)



Reliable battery use and management

Battery monitoring and management is a key factor for a reliable and durable power back-up. The Statron S7300/S8300 has class leading built-in features.

These are:

- Battery availability check
- Partial discharge test automatically or manually for lead acid and NiCd batteries
- Compatibility with all battery types
- Three different charging voltages programmable
- Battery temperature monitoring and charge voltage compensation

Technical Specification | S7300 60–300 kVA/S8300 400–800 kVA

Rated apparent power kVA	60	80	100	125	160	200	250	300	400	500	600	800
Rated active output power (cos = 0.9) kW	54	72	90	112.5	144	180	225	270	360	450	540	720

AC / AC efficiency (VFI - online double conversion)	@ 25% load	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%
	@ 50% load	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
	@ 75% load	94.5%	94.5%	94.5%	94.5%	94.5%	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
	@ 100% load	94.5%	94.5%	94.5%	94.5%	94.5%	95.0%	95.0%	95.0%	94.5%	94.5%	94.5%
Rated input voltage		400 V AC										
Tolerance		-20% / +15%										
Input frequency (selectable)		50 - 60 Hz										
Tolerance		+/- 5%										
Input current harmonic distortion (THDi) (at rated voltage THDv <0.5%)	@ 25% load	<10%										
	@ 50% load	<7%										
	@ 75% load	<5%										
	@ 100% load	<3%										
Output voltage static stability		+/- 1%										

Rated output current (@ 400V AC)	87 A	116 A	145 A	181 A	232 A	290 A	362 A	435 A	580 A	724 A	870 A	1060 A
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Overload	>100...125%	10 min											
	>125...150%	1 min											
	>150...199%	10 s											
	200%	100 ms											
Short circuit current (phase-phase)	156 A	208 A	260 A	326 A	418 A	520 A	652 A	780 A	1043 A	1304 A	1407 A	2086 A	
Short circuit characteristic	Current limited electronic protection, Automatic stop after 5 seconds												
Output wave form	Sinusoidal												
Automatic bypass	Electronic thyristor switch												
Protection	Fuses												
Rated output voltage (selectable)	380 - 400 - 415 V AC												
Tolerance	+/- 1% (balanced load)												
Overload capability (bypass)	150% continuously												
	1000 ms for 1 cycle												
Manual bypass	Electronically controlled												
	No-break assisted re-start procedure												

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General Data

Ambient temperature						UPS 0 + 40 °C							
Relative humidity (non-condensing)						<95%							
Altitude						<1000 m (above sea level)							
Power derating for altitude >1000 m						IEC/EN 62040-3 (0.5% every 100 m)							
Cooling						Forced							
Acoustic noise in 1 m distance						< 67 dB							
Protection degree						IP20							
Colour / Paint						RAL 5026/RAL 9006(other colour optional)							
Safety						IEC/EN 62040-1							
EMC						IEC/EN 62040-2							
Performance and Test						IEC/EN 62040-3							
Conformity						CE-Label							
Accessibility						Front and top access							
Installation						Against the wall							
Front panel						LCD							
Serial communication interface						Standard: RS232/USB							
						Optional: RS 485 (ModBus RTU protocol), relais contacts							
Parallel configuration (optional)						Up to 5 +1 (parallel redundant)							
						Up to 6 (power parallel)							
Height* [mm]		1670				1900		1920	2020		1920		
Width* [mm]		815				1217		1990	2440		3640		
Depth* [mm]		825				853		950	950		950		
Weight* [kg]		570	600	625	660	715	970	1090	1170	1955	2482	2535	3600

* Dimensions for IP20 and basic configuration. Further data are available on request.

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