



**SEMI-INDUSTRIAL  
UPS SYSTEMS**

**S1300  
30–500 kVA**

**Key features**

- ▶ Online UPS with high efficiency
- ▶ Large power range 30–500 kVA
- ▶ Power factor corrected (PFC) rectifier
- ▶ Without power transformers
- ▶ Touchscreen with large control panel
- ▶ Various communication possibilities

**Operational benefits**

- ▶ Highest reliability at compact footprint
- ▶ Consistent operation over full range
- ▶ No reactive power consumption
- ▶ Compact and lightweight construction
- ▶ Easy control and supervision of system
- ▶ Flexible remote monitoring

# S1300 – Reliable UPS for Semi-Industrial applications

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The S1300 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 or in other infrastructure systems. The compact UPS system S1300 is the reliable solution for all critical infrastructure.



## Reliability through modern design

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- Double conversion online UPS with high efficiency (up to 96 %) and compact construction
- High efficiency thanks to Power Efficiency Mode (PEM)
- Output designed for PF 1.0 loading
- Power factor corrected (PFC) rectifier, PF 0.99, THDi < 3 %
- Dynamic Charge Mode (DCM) reduces battery recharge time
- Advanced Battery Care (ABC) extends battery lifetime
- Power transformer free UPS design leads to low weight and high efficiency
- Large touchscreen, easy operation and monitoring
- Comprehensive set of communication options for flexible remote monitoring
- Same handling and spare parts over full power range



### Modern Human Machine Interface

The touchscreen of the S1300 facilitates a comprehensive and flexible human machine interface (HMI). An easy and intuitive operation and control of the system is achieved through:

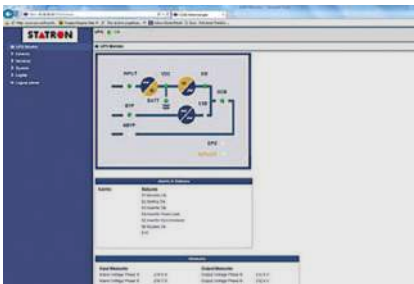
- Intuitive menu structure
- Colour display
- Mimic diagram
- LED status indications



### Includes many advantageous features in standard configuration

In contrast to the market standard, the S1300 system includes many advantageous features already in the standard configuration, such as:

- SNMP (Ethernet) communication board
- HTTP (Ethernet) communication board
- Dry-contact relay board
- Alarm relay card
- External digital inputs
- Large colour touchscreen (> 60 kVA systems)
- Input-, output- and manual bypass switches



### Remote communication

The S1300 systems offer various possibilities for the integration into overlaying control and monitoring systems. It offers various digital inputs, such as:

Optional communication parts are available, such as:

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

- Modbus-TCP/IP (Ethernet)
- Modbus-RTU (RS485)
- PROFIBUS DB



### Reliable battery use and management

Battery monitoring and management is a key factor for a reliable and durable power back-up. The Statron S1300 has class leading built-in features, such as:

- Battery availability check
- Battery monitoring (constantly updated battery capacity and battery back-up time)
- Automated / manual partial discharge testing
- Compatible with different battery types
- Two charge voltages battery
- Two individual battery charge current limitations

## Technical specification | S1300 30–500 kVA

Rating kVA	30	40	60	80	100	125	160	200	250	300	400	500
Rated active output power (cos = 1) kW	30	40	60	80	100	125	160	200	250	300	400	500
AC / AC efficiency @ 25 % load	92.0 %	92.0 %	93.0 %	93.0 %	93.0 %	93.0 %	93.0 %	94.5 %	94.5 %	94.5 %	94.8 %	94.8 %
(VFI – online double @ 50 % load conversion)	93.5 %	93.5 %	94.5 %	94.5 %	94.5 %	94.5 %	94.5 %	95.5 %	95.5 %	95.8 %	96.0 %	96.0 %
@ 75 % load	94.0 %	94.0 %	95.0 %	95.0 %	95.0 %	95.0 %	95.0 %	96.0 %	96.0 %	96.0 %	96.0 %	96.0 %
@ 100 % load	94.0 %	94.0 %	95.0 %	95.0 %	95.0 %	95.0 %	95.0 %	95.5 %	95.5 %	95.5 %	95.6 %	95.6 %

Rated input voltage	400 V AC
Tolerance	-20 / +15 %
Input frequency (selectable)	50-60 Hz
Tolerance	+ / -10 %
Input current harmonic @ 25 % load distortion (THDi)	< 5
@ 50 % load	< 4
(at rated voltage, @ 75 % load)	< 3
THDv < 0.5 % @ 100 % load	< 3
Output voltage static stability	+ / -1 %

Rated output current (@ 400 V AC)	44 A	58 A	87 A	115 A	144 A	180 A	231 A	289 A	361 A	433 A	577 A	700 A
Overload capability >100...125 % / 110 % for 160–500 kVA unit	10 min											
>110...125 % / Only for 160–500 kVA unit	5 min											
>125...150 %	30 s											
>150 %	100 ms											
Short circuit current	101 A	133 A	265 A	330 A	400 A	490 A	640 A	720 A	900 A	1050 A	1400 A	1800 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 input voltage (selectable)	380 – 400 – 415 V AC											
Tolerance	+ / -10 %											
Overload capability	150 % continuously											
	1000 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 (IEC/EN 62040-3)	< 57 dB	< 60 dB					< 65 dB			< 72 dB			
Protection degree	IP20												
Colour / Paint	RAL 9005 (other colour optional)												
Safety	IEC/EN 62040-1												
EMC	IEC/EN 62040-2												
Performance & Test	IEC/EN 62040-3												
Conformity	CE-Label												
Accessibility	100 mm from the wall												
Installation	Front and side access Against the wall												
Front panel	LCD	Touchscreen 7"					Touchscreen 10"						
Serial communication interface	Standard: RS232/USB Optional: RS485 (ModBus RTU protocol)												
Parallel configuration (optional)	Up to 5+1 (parallel redundant) Up to 6 (power parallel)												
Height*	1230 mm			1800 mm				1978 mm					
Width*	465 mm			560 mm				880 mm		1450 mm			
Depth*	650 mm				940 mm				970 mm				
Weight*	120 kg	140 kg	250 kg	300 kg	320 kg	360 kg	380 kg	720 kg	850 kg	900 kg	930 kg	1250 kg	

\* dimensions for IP20 and basic configuration  
Further data available on request

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