STATRON
NON STOP POWER

Power Generation

Transmission & Distribution

Industry

Infrastructure

Telecom

## SEMI-INDUSTRIAL MODULAR UPS SYSTEM

# S6300e
# 20–500 kVA/kW

### Key features

- Modular, Online UPS with high efficiency up to 95 %
- Power factor >0,99; THDi <3 %
- Large power range 20-60 kVA; 50-500 kVA
- Without power transformers
- Friendly operation, high resolution LCD touch screen
- Battery management with smart charging control
- Smart sleep function
- Hot swappable module replacement
- Output power factor cos PHI = 1 (100-500kVA)

### Operational benefits

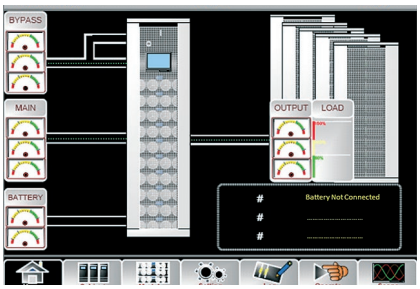
- Highest reliability at compact footprint
- No reactive power consumption
- Consistent operation over full range
- Compact and lightweight construction
- Easy control and supervision of system
- Extended battery lifetime
- Increase efficiency of the total system
- No shutdown for replacement needed

# S6300e – Reliable modular UPS for Semi-Industrial applications

**The S6300e is a robust UPS Solution for all modular UPS applications, such as data centres, production facilities, back-up systems in the health sector, banks, public buildings or in other infrastructure systems. The compact UPS system S6300e is the reliable solution for all critical infrastructure.**


### Reliability through modern design

- Advanced 3-level technology, which allows high efficiency (up to 96 %) in double conversion mode and compact construction
- 99 % efficiency in ECO-Mode
- Output designed for PF = 0.9 with 20kVA and PF=1 with 50kVA modules
- Power factor corrected (PFC) rectifier, PF 0.99, THDi <3 %
- Battery management with smart charging control
- Battery cold start
- High scalability up to 1,5 MVA
- Power transformer free UPS design leads to low weight and high efficiency
- High resolution touch LCD screen
- Comprehensive set of communication options for flexible remote monitoring SNMP, RS485, USB, Modbus, pot. free contacts
- Hot swappable battery modules (20-60 kVA)
- Smart sleep function (shutdown of power modules to increase efficiency)




## Modern Human Machine Interface

The high resolution LCD touch screen of the S6300e facilitates a comprehensiv and flexible human machine interface (HMI). An easy and intuitive operation and control of the system is achieved through:

- Intuitive menu structure
- Mimic diagram
- LED status indications
- Mesaurements of each module
- 5.7" Display 20-60 kVA
- 10.4" Display 50-500 kVA

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## Includes many advantageous features in standard configuration

In contrast to the market standard, the S6300e system includes many advantageous features already in the standard configuration, such as:

- RS232/RS485/Modbus interface
- External digital inputs
- Manual bypass switch
- High over load capability 150 % - 1min

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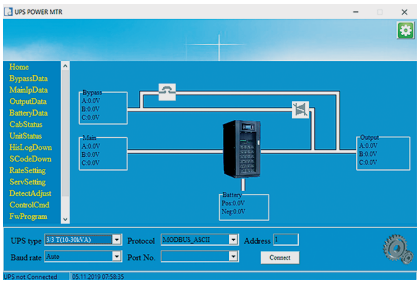


## Remote communication

The S6300e systems offer various possibilities for the integration into overlaying control and monitoring systems. It offers various digital inputs, such as:

- Remote emergency off
- External battery breaker
- Generator operation

Optional communication parts are avaiable, such as

- Modbus-TCP/IP (Ethernet)
- Modbus-RTU (RS485)
- USB-connection
- Dry-contact relay board
- SNMP (Ethernet) communication board

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## Reliable battery use and management

Battery monitoring and management is a key factor for a reliable and durable power back-up. The Statron S6300e has class leading built-in features, such as:

- Battery availability check
- Battery monitoring (constantly updated battery capacity and battery back-up time)
- Manual partial discharge testing for 30 sec.
- Compatible with different battery types
- Two charge voltages battery
- Individual battery charge current limitations (1-20 % of UPS capacity)

# Technical specification | S6300e 20–500 kVA

| Rated output power kVA | | | 20 | 40 | 60 | 100 | 200 | 300 | 500 |
|---|---|---|---|---|---|---|---|---|---|
| **Rated output power kW** | | | **18** | **36** | **54** | **100** | **200** | **300** | **500** |
| AC/AC efficiency | @ 100 % load AC Mode | | 95 % | 95 % | 95 % | 95 % | 95 % | 96 % | 96 % |
| | @ 100 % load ECO Mode | | 99 % | 99 % | 99 % | 99 % | 99 % | 99 % | 99 % |
| | @ 100 % load Battery Mode | | 95 % | 95 % | 95 % | 95 % | 95 % | 96 % | 96 % |
| Rated input voltage | | | 400 V AC | | | | | | |
| Tolerance | | | -20/+15 % | | | | | | |
| Input frequency (selectable) | | | 50/60 Hz | | | | | | |
| Tolerance | | | 40-70 Hz | | | | | | |
| Input PF | | | > 0.99 | | | | | | |
| Input THDi | | | < 3 % | | | | | | |
| Output voltage static stability | | | + / - 1.5% | | | | + / - 1% | | |
| **Rated output current (@ 400VAC)** | | | **28.9 A** | **57.8 A** | **86.7 A** | **144.5 A** | **289 A** | **434 A** | **723 A** |
| Overload capability | > 100…110 % | | 60 min | | | | | | |
| | > 110…125 % | | 10 min | | | | | | |
| | > 125…150 % | | 1 min | | | | | | |
| | > 150 % | | 200 ms | | | | | | |
| Short circuit current (200 ms) | | | **72.2 A** | **144.4 A** | **216.7 A** | **361 A** | **722 A** | **1084 A** | **1806 A** |
| Short circuit characteristic | | | Current limited electronic protection | | | | | | |
| Output wave form | | | Sinusoidal | | | | | | |
| Automatic bypass | | | Electronic thyristor switch | | | | | | |
| Protection | | | Fuses | | | | | | |
| Rated input voltage Bypass (selectable) | | | 380 - 400 - 415 V AC | | | | | | |
| Tolerance | | | -20/15 % | | | | | | |
| Overload capability | | | 125 % continuously | | | | 110 % continuously | | |
| Manual Bypass | | | Electronically controlled | | | | | | |
| Battery voltage | | | ± 240 VDC | | | | | | |
| Number of battery blocs | | | 40 pc. 12 V (settable 32 to 44 blocks) | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|
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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 | | | 1 % per 100 m | | | | | | |
| Cooling | | | Forced | | | | | | |
| Acoustic noise (IEC/EN 62040-3) | | | < 57 dB | | | < 72 dB | | | |
| Protection degree | | | IP 20 | | | | | | |
| Colour / Paint | | | Black grey (RAL 7021) | | | | | | |
| Safety | | | IEC/EN 62040-1 | | | | | | |
| EMC | | | IEC/EN 62040-2 | | | | | | |
| Performance & Test | | | IEC/EN 62040-3 | | | | | | |
| Conformity | | | CE - Label | | | | | | |
| Accessibility | | | Front access | | | | | | |
| Installation | | | 500 mm from the wall | | | | | | |
| Front panel | | | 5.7" touch screen display | | | 10.4" touch screen display | | | |
| Serial communication interface | | | RS232, RS485, USB, optional SNMP-adapter, pot. free contacts | | | | | | |
| Parallel configuration (optional) | | | up to 1,5 MVA | | | | | | |
| Dimension | System cabinet | Height * (mm) | 2000 | | | 1150 | 1600 | 2000 | 2000 |
| | | Width * (mm) | 600 | | | 600 | 650 | 650 | 1300 |
| | | Depth * (mm) | 1020 | | | 980 | 960 | 1095 | 1100 |
| | Power module | W*D*H (mm) | 440*590*134 | | | 510*700*178 | | | |
| Weight | (kg) | System cabinet | 205 | | | 210 | 350 | 500 | 900 |
| | | Power module | 22 | | | 45 | | | |

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