STATRON

Statron's industrial UPS systems with single or three phase output are designed for the harshest operating environment – meeting the most stringent requirements in industrial applications, such as in oil and gas, petrochemical, power generation, power distribution and transmission plants. The flexible system concept and a full range of options enables a fully customized solution meeting any specific requirement.

The UPS uses the latest µP digital technology and offers user friendly operation and a comprehensive monitoring concept. True online double conversion provides high power quality and reliability.

Industrial UPS System

S2100/S2300 5–200 kVA

Standard features

- IGBT-PWM technology
- Full digital µP control
- Input and inverter isolation transformer
- Integrated static and manual bypass switches
- Automatic and manual high-charge rate (I or U)
- High overload capability and short-circuit proof
- LCD display, LED mimic panel and keyboard
- Event history with time stamp up to 100 events
- Electronic battery current limit
- Automatic and manual battery test
- RS232/RS485 and potential-free contacts
- Life expectancy up to 30 years
- CE mark

Options

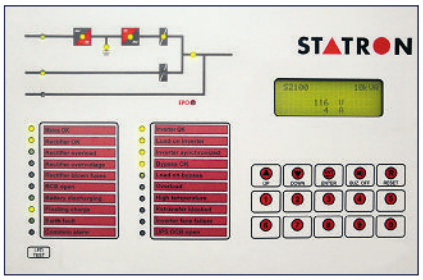
- Parallel redundant configuration
- Redundant fans and fan monitoring
- 12-pulse thyristor bridge and THD filters
- Oversized charger for long battery backup
- Bypass isolation transformer and AC voltage stabilizer
- External manual bypass switch
- Diode DC voltage regulators with µP control and alarm
- Earth fault or additional alarms and meter
- Input/output circuit breaker, AC/DC distributions
- Emergency Power Off (EPO)
- SNMP LAN-interface, MODBUS and remote control software
- Special color and higher protection degree
- Other options on request

Human Machine Interface

The Human Machine Interface allows the complete monitoring and control of the UPS with multi-method visualization.

The main features are:

- microprocessor-controlled system logic
- intelligent real-time fault analysis and recording of the last 100 events
- mimic flow diagram with LED indication
- 20 programmable color-coded alarm/status LED indication
- emergency power off (EPO)
- 4-line LCD for alarm/status/measurement indication and menu-driven operation
- keyboard for operation and direct menu access with password protection



Technical Specification S2100/S2300

Battery V		Output power (kVA p.f. 0.8)												
		5	10	15	20	30	40	50	60	80	100	120	160	200
110 VDC	1 ph													
110 VDC	3 ph	■	■	■	■	■	■	■	■	■	■			
220 VDC	1 ph													
220 VDC	3 ph	■	■	■	■	■	■	■	■	■	■	■	■	■
400 VDC	1 ph													
400 VDC	3 ph					■	■	■	■	■	■	■	■	■

Input AC voltage	VAC	3×400 VAC ±10%, 50 or 60 Hz ±5% (optional 190–690 VAC)
DC voltage		110 VDC, 125 VDC, 220 VDC, 400 VDC
Output ripple		<2% without battery (lower on request)
Output voltage	VAC	110/120/220/230/240 VAC 1 ph 200/208/380/400/415 VAC 3 ph
Voltage regulation		±1% under all static load conditions
Frequency	Hz	50 or 60 Hz ±0.01%
Total harmonic distortion (output)	THD	<2% for linear load <5% for non-linear loads (75% crest factor 3:1)
Battery charging characteristics		IU/IUoU acc. DIN 41773
Audible noise	dB(A)	60 to 65 dB(A) (depending on model) (70 dB(A) with redundant fans)
Efficiency	%	82 to 93% at full load (depending on model)
Operating conditions	°C RH m	–10 to +40 °C (up to 55 °C on request) ≤95% (non-condensing) 1000 m a.s.l. (up to 4000 m a.s.l. with derating)
Ventilation		Fan cooling (redundant fans and monitoring optional)
Cabinet protection		IP20 (up to IP54 optional)
Color		RAL 7035 (other RAL colors available on request)
Standard alarms and status indication (languages)		English, German, French, Italian, Dutch (other on request)
Standard protection		Electronic current limitation, overtemperature protection, DC under/overvoltage shut-down, synchronization monitor
Communication		RS232 and RS485 (SNMP and MODBUS optional)
Main applicable standards		IEC/EN 62040-3 Performance EN 50091-2, IEC/EN 62040-2 EMC IEC/EN 62040-1 Safety
Conformity		CE
Quality/Environment		ISO 9001:2008 / ISO 14001

Further data available on request

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