



Power

Generation

Transmission & Distribution







INDUSTRIAL UPS SYSTEM

S2000e Series 5-200 kVA

Key features

- Based on well proven technology platform
- Design life of 25–30 years
- Latest digital control technology
- Clear structured front panel
- State of the art communication software
- Fully monitored system platform
- Rugged and heavy industrial design
- Intelligent battery management

Operational benefits

- High reliability
- Long durability
- High degree of customization and flexibility
- Easy operation and control
- ▶ Easy access and intuitive communication
- Low operational costs
- Low maintenance costs
- Extremely high degree of availability

\$2000e – The standard in reliability, functionality and serviceability

The Statron industrial UPS is a heavy-duty, single or three-phase output system, specifically designed for the harshest operating environments in industrial applications, such as oil and gas, petrochemical, power generation, or distribution and transmission plants. The modular and flexible system concept, along with a wide range of options, enables a fully customized solution that can meet any requirement, regardless of location or specificity. The UPS incorporates the latest µP digital technology, ensuring user-friendly operation and comprehensive monitoring. Its true online double conversion technology provides high power quality and reliability.



Reliability through excellent design

The outstanding reliability of the \$2000e is ensured by a combination of high-end technology and robust design. In detail, the advantages are based on:

- Leading microprocessor-controlled SCR and IGBT technology
- Integrated static and manual bypass switches
- Isolation transformer for rectifier input inverter output and bypass (option)
- Internal multi-channel power supply
- Fully monitored fans
- LCD display, LED mimic panel, and keyboard for user interaction
- Real-time temperature display and monitoring
- Control scheme for best diesel generator compliance
- Automatic and manual battery testing
- RS485 internal communication bus
- CAN bus for parallel operation for robust digital communication
- DedicatedI/O board with numerous configurable digital inputs and outputs
- Comprehensive digital communication via RS232/RS485/Ethernet interfaces
- 12-pulse rectifier with active load sharing (option)
- Oversized rectifier for long battery backup (option)
- Parallel redundant and power increase configurations(option)
- External manual bypass switch (option)
- Special color and higher protection de-gree (option)



Durability due to use of proven technology

UPS solutions engineered by Statron have been protecting industrial installations for more than four decades. The outstanding durability of the \$2000e is based on:

- Well proven system platform \$2000e
- Use of high-quality rugged industrial components
- Design life of 25–30 years
- Compliance to all relevant ISO and IEC/EN standards
- Electrical and physical integrated galvanic isolation
- Designed to withstand harsh environmental conditions (up to IP54)



Easy Operation & Control

The front panel of the \$2000e facilitates acomprehensive and flexible human machine interface (HMI). An easy and intuitive operation and control of the system is achieved through:

- Colour-coded and animated LED mimic flow diagram adapted to actual configuration
- Comprehensive 8-line LCD display
- Multi-language support
- 14 programmable alarms / indications
- Real time event recorder for 2500 events
- Continuous battery health check
- Multi-level user management
- Front access to key components to allow fast and cost-effective maintenance



Easy accessible interface & intuitive communication

State of the art communication software and gateway supports the monitoring and control of the \$2000e. Intuitive communication is achieved through:

- RS232/RS485 serial interface with MODBUS protocol
- Modbus TCP/IP interface
- PROFIBUS and IEC 61850 interface
- TCP/IP network interface with on-board web-server
- USB-stick interface for event log
- Remote display
- Programmable relays cards
- Digital inputs for EPO, generator operation etc.



Reliable battery use and management

Battery monitoring and management is a key factor for a reliable and durable power back-up. The Statron \$2000e has class leading built-in features, such as:

- Multi-string battery current monitoring
- Battery availability check
- Smart Battery Monitor (constantly updated battery capacity and battery back-up time)
- Automated / manual partial discharge testing
- Compatible with all battery types / wide DC range
- Four individual programmable battery charge voltages
- Two individual battery charge current limitation levels
- Float and Boost Current monitoring

Technical specifications | \$2000e Series 5–200 kVA

		5 10 15 20	30	40 50	60 80	100	120 160	20	
Rectifier input			•						
Rectifier AC input voltage		3x208/380/400/415/480/500/690 V ±10% (others on request)							
Rectifier input frequency		50 Hz / 60 Hz ± 5%							
ectifier input power	factor	Typical > 0.8 ind.							
Rectifier output / Bo	tterv								
keciller output / bc	mery								
Iominal voltage		110 / 125 / 220 / 400 VDC							
etting range:	Float voltage	100 – 120%							
	Boost voltage	100 – 130%							
DC voltage telever	Initial charge voltage	100 – 150%							
DC voltage tolerance		± 1%							
	Dynamic	max. ± 10% Vrms / ± 2% Vrms within 100 ms							
C ripple voltage	<u></u>	< 2% rm	< 2% rms without battery connected (lower on request)						
Charging characteri	stics .			IU / IUoU acc.D	IN 41773				
Inverter output									
Inverter AC output voltage		1x120/220/230/240 V (others on request)							
		3x208/380/400/415 V (others on request)							
Inverter AC output frequency		50 Hz / 60 Hz ± 0.1%							
Inverter AC output voltage regulation		± 1% under all static load conditions							
nverter AC output vo	oltage THDu				6 for non-linear l				
nverter overload ca	pability	125% 10 m	nin / 1509	% 1 min / 200% 2	200 ms / 200% sł	nort circu	uit 5 s		
Bypass input									
Bypass AC input volto	age .	1x120/22	20/230/2	240/277/288/400	V ±10% (others	on reque	est)		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	290				$0 \text{ V} \pm 10\%$ (others				
Bypass AC input freq	uency .	3,200,0	00,400,			onrego	<u>C31</u>		
Bypass overload capability		50 Hz / 60 Hz ± 0.1% 150% 1 min / 1000% 50 ms							
General data									
Efficiency		82% - 94% depending in model and load							
Noise Level		55 dB (A) - 65 dB (A)							
Cooling		forced ai		• (nd/or demand	controlle	:d)		
seeming	ure		-10 t	o +40°C (up to :	55°C optional)				
		-30 to +80°C							
Operation temperat			1000 masl (up to 4000 masl with derating)						
Operation temperat Storage temperature Maximum altitude w	e ithout derating	1				g)			
Operation temperat Storage temperature Maximum altitude w Allowable relative hu	e ithout derating	1		< 95% (non-con	idensing)	g)			
Operation temperation temperature Storage temperature Maximum altitude w Allowable relative hu Protection degree	e ithout derating	1		IP20 (up to	idensing) IP54)	g)			
Operation temperat Storage temperature Maximum altitude w Allowable relative hu Protection degree Colour / Paint	e ithout derating	1		IP20 (up to 7035 (other col	idensing) IP54) our optional)	g)			
Operation temperationage temperature Maximum altitude w Allowable relative hu Protection degree Colour / Paint Safety	e ithout derating	1		IP20 (up to 7035 (other col IEC/EN 620	idensing) IP54) our optional) I40-1	g)			
Operation temperationage temperature Maximum altitude wallowable relative hu Protection degree Colour / Paint Gafety EMC	e ithout derating	1	RAL	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620	idensing) IP54) our optional) I40-1 I40-2	g)			
Operation temperationage temperature Maximum altitude wallowable relative herotection degree Colour / Paint Gafety EMC Performance & Test	e ithout derating	1	RAL	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC	idensing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3	g)			
Operation temperation temperations and a second control of the con	ithout derating Umidity	1	RAL	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Labe	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3	g)			
Operation temperation temperations and a second control of the con	ithout derating umidity	1	RAL	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3	g)			
Operation temperation temperations and a second control of the con	ithout derating umidity	1	RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Labo 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el D 14001:2004	g)			
Operation temperation temperation temperature described by the content of the con	ithout derating umidity unidity unidity		RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Labe	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el D 14001:2004	g)			
Operation temperationage temperature Maximum altitude was allowable relative hus rotection degree Colour / Paint afety EMC Performance & Test Conformity Quality / Environmer Dimension (IP20, bas	ithout derating imidity int ic configuration)	1	RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Labo 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el D 14001:2004	g)			
Operation temperation temperation temperature described in the control of the con	ithout derating imidity int ic configuration) 110 / 125 VDC 1ph 110 / 125 VDC 3 ph		RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Labo 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el D 14001:2004	g)			
Operation temperation temperation temperature described in the control of the con	ithout derating imidity int ic configuration)	800	RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Lab 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el D 14001:2004	9)			
Operation temperationage temperature Maximum altitude was allowable relative har official of the following temperature Colour / Paint afety MC Performance & Test Conformity Quality / Environment of the following temperature of the following tempera	ithout derating imidity Intic configuration) I10 / 125 VDC 1ph I10 / 125 VDC 3 ph 220 VDC 1 ph 220 VDC 3 ph		RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Labo 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el D 14001:2004	2000			
operation temperated to rage temperature (aximum altitude wollowable relative horotection degree colour / Paint afety MC erformance & Test conformity (availity / Environmentimension (IP20, base eight* (mm)	ithout derating imidity int ic configuration) 110 / 125 VDC 1ph 110 / 125 VDC 3 ph 220 VDC 1 ph		RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Lab 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el O 14001:2004		2000	24	
Operation temperated to rage temperature to rotection degree Colour / Paint afety MC erformance & Test Conformity Quality / Environmer to remeasion (IP20, basic leight* (mm)	ithout derating imidity Intic configuration) I10 / 125 VDC 1ph I10 / 125 VDC 3 ph 220 VDC 1 ph 220 VDC 3 ph		RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Lab 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el O 14001:2004		2000	24	
operation temperated torage temperature (aximum altitude wollowable relative hurotection degree colour / Paint afety MC erformance & Test conformity (audity / Environmentimension (IP20, base) eight* (mm)	ithout derating imidity Intic configuration) I10 / 125 VDC 1ph I10 / 125 VDC 3 ph 220 VDC 1 ph 220 VDC 3 ph 400 VDC 1 ph		RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Lab 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el O 14001:2004		2000	24	
operation temperated torage temperature (aximum altitude wollowable relative hurotection degree colour / Paint afety MC erformance & Test conformity (audity / Environmentimension (IP20, base) eight* (mm)	ithout derating imidity Intic configuration) I10 / 125 VDC 1ph I10 / 125 VDC 3 ph	800	RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Lab 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el O 14001:2004		2000	24	
operation temperated torage temperature (aximum altitude wollowable relative hurotection degree colour / Paint afety MC erformance & Test conformity (audity / Environmentimension (IP20, base) eight* (mm)	ithout derating imidity Intic configuration) I10 / 125 VDC 1ph I10 / 125 VDC 3 ph I220 VDC 1 ph I220 VDC 3 ph I400 VDC 1 ph I400 VDC 3 ph I10 / 125 VDC 1ph		RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Lab 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el O 14001:2004		2000	24	
Operation temperationage temperature Maximum altitude was allowable relative har official of the followable relative har official	ithout derating imidity Intic configuration) I10 / 125 VDC 1ph I10 / 125 VDC 3 ph I10 / 125 VDC 3 ph I10 / 125 VDC 3 ph I10 / 125 VDC 1ph I10 / 125 VDC 3 ph I10 / 125 VDC 3 ph I10 / 125 VDC 1ph I10 / 125 VDC 1ph I10 / 125 VDC 1ph I10 / 125 VDC 3 ph I10 / 125 VDC 1 ph	800	RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Lab 9 9001:2008 / ISC	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el O 14001:2004		2000	2.	
Operation temperated torage temperature torage temperature to taximum altitude would would be relative her to tection degree Colour / Paint afety MC erformance & Test Conformity Quality / Environmer to the total conformity (IP20, basileight* (mm)	ithout derating imidity Intic configuration) I10 / 125 VDC 1ph I10 / 125 VDC 3 ph I10 / 125 VDC 1ph I10 / 125 VDC 3 ph	800	RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Labo 9001:2008 / ISC 900 (2100, 2300 1600	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el D 14001:2004 I optional) I 600	2000	2000	2	
Operation temperation temperation temperature described in the control of the con	ithout derating imidity Intic configuration) I10 / 125 VDC 1ph I10 / 125 VDC 3 ph I10 / 125 VDC 3 ph I10 / 125 VDC 3 ph I10 / 125 VDC 1ph I10 / 125 VDC 3 ph I10 / 125 VDC 3 ph I10 / 125 VDC 1ph I10 / 125 VDC 1ph I10 / 125 VDC 1ph I10 / 125 VDC 3 ph I10 / 125 VDC 1 ph	800	RAL IEC/EI	IP20 (up to 7035 (other col IEC/EN 620 IEC/EN 620 IEC/EN 620 N 60146-1-1 / IEC CE-Labo 9001:2008 / ISC 900 (2100, 2300 1600	densing) IP54) our optional) I40-1 I40-2 C/EN 62040-5-3 el O 14001:2004	2000		2-	

^{*} dimensions for IP20 and basic configuration Further data available on request

@ 2024 Statron AG, data subject to change without notice