

UNINTERRUPTABLE POWER SUPPLY SYSTEM \$3000

Uninterruptable power supply system *S3000* is designed to provide high quality power to telephone exchanges and other telecom devices, where low disturbances,

low noise and short response time are mandatory. \$3000 system is designed for 24 hours autonomous operation, enabling the application in remote locations without crew. May operate with or without batteries, with or without diesel generator or other auxiliary power source.

Uninterruptable power supply system \$3000 is manufactured for 48V, 60V, 24V and 110V output voltage versions. Covers 1 kW to 150 kW output power range. Upon customer request other output voltages are available.

S3000 is easy to expand or modify "'on line"', no need to interrupt system operation or in any way endanger the basic functions of the system.



Features

- Sixth generation power supply system since 1988
- Large capacity: upto 3000 A / 170 kW
- 4 output voltage options: 48 V, 60 V, 24 V, 110 V
- Modular, upto 120 rectifier units 1400 W each
- Redundancy N+1, N+2 or N+P
- Built-in battery overdischarge protection
- Fulfils relevant international standards and recommendations: *ITU-T*, *ETSI*, *ISO*, *IEC*...
- Power factor corrected > 0,98
- 2 battery ports
- Low psophometric noise < 1 mV
- Temperature compensated output voltage
- High efficiency
- High reliability
- Does not require preventive maintenance

Applications

- Uninterruptable power supply of telecom equipment
- Accu-batteries maintenance
- Uninterruptable power supply of computer and other proffesional electronic equipment
- Replacement of old uninterruptable power supply systems

Benefits

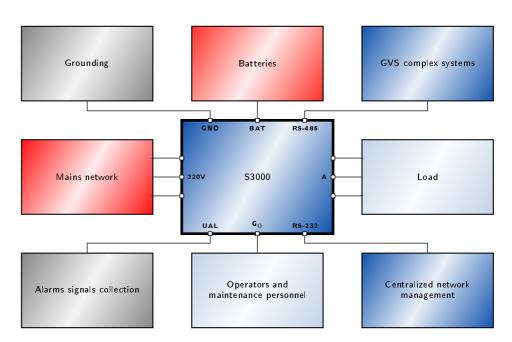
- Same rectifier units for small and large capacity simplified maintenance
- Extremely robust, resistant to harsh working conditions
- 2 large LED displays + alphanumeric LCD
- Fully "'plug-in"' rectifier units replacement
- Extended input voltage range available on request
- Natural convection cooled
- User friendly, built in 16-keys keyboard
- Mains voltage measurement option available
- LED display on each rectifier unit
- Integrates with SRCE TC-011 telephone exchange

Exceptional resistance to mains voltage disturbances and high reliability make \$3000 system an ideal solution for operation in harsh conditions, like rural areas. If You have a site where other power supply systems fail, \$3000 is the right system for You.

Power supply system *S3000* is modern, highly professional system, featuring exceptional electrical characteristics, simple handling and high reliability. Thanks to many adjustable and programable features, easily copes with customer special requests.

Power supply system *S3000* is designed for international market and is available in english, russian and serbian language versions.

Together with other GVS products, like switching systems, test & measurement equipment and other, 53000 system offers complete, well composed solution and forms one-stop-shop for all telecom equipment for your telecom network node.



Technical data

Input data

Mains voltage V_i 220/230 V_{ac} Mains frequency 47-63 Hz Mains voltage range -15% .. +10% Mains distorsion 30% Input current 7 A @ V_{nom} Power factor (cos φ) > 0,98 Input fuse per unit 10A fast

Output voltage

Floating voltage 2,1-2,3V/cell Charging voltage 2,2-2,4V/cell Voltage regulation better than 1% Voltage spikes $< 2 \ V_{p-p}$ Psophometric noise $< 1 \ \text{mV}_{ac}$ Noise $10 \ \text{Hz} - 450 \ \text{kHz}$ $< 25 \ \text{mV}$ Wideband noise $< 10 \ \text{mV}_{ac}/\text{MHz}$

Output current

Var.	48V	60V	24V	110V	UM
S1	100	80	200	44	A-
S2	200	160	400	88	A-
S3	400	320	800	176	A-
nS3	3000	2400	3000	1320	A-

Response time 1 msec Current limit 105%

System configurations

Configuration	S1	S2	S3	nS3	UM
Rectifier units	4	8	16	120	pcs
Output power	5,5	11	22	170	kW
Dimensions w x d x h	64×50×45	66×62×136	66×62×209	530×62×209	cm
"Empty" / "full" system total weight	40/80	115/195	195/355	1540/2740	kg
Battery fuses high efficiency	2 upto 125	2 upto 250	2 upto 400	<i>n</i> upto 630	A_{dc}
Load fuses	2×125,6×10	8×125	4x250,4x125	<i>n</i> upto 630	A_{dc}





Batteries						
Feature	48V	60V	24V	110V		
Total cells per battery	23 / 24	28/29/30	11 / 12	53/54/55		
Floating voltage	48,355,2	58,869	23,127,6	111,3126,5		
Charging voltage	50,657,6	61,672	24,228,8	116,6132		
Overdischarge treshold	39,145,6	47,657	18,722,8	90,1104,5		



General data

Operation & maintenance RS232, RS485 Temperature range 0°C .. 40°C Storage temperature -10°C .. 70°C Relative humidity 0 .. 90% Measure/display accuracy $\pm 1\%$, $\pm 0.5\%$ Service life 40 years Spare parts 10 years

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GVS ko - research, development, manufacturing & engineering company in electronics

Product line
High capacity digital switching systems
Uninterruptable power supply systems
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Special purpose communications equipment

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