

## STROM Z

Single phase in / out UPS system

1000 – 10000 VA power supply  
with integrated batteries

**Efficient high-performance UPS for rack use** With a high power factor of 0.9 the STROM Z series exceeds the power of conventional UPS systems by 20%. Efficiency is significantly increased during normal operation as well as in the energy-efficient ECO operating modes.

### FEATURES

#### Compact and flexible

The height of the UPS electronics and battery together is only 2 U. The autonomy times can be increased with additional battery packs; connected battery packs are automatically detected. Our advanced battery charging technology allows for short charging times and battery-preserving charging characteristics at the same time.

A real-time event logger ensures careful observation and analysis of events as they occur. In addition, a regular automated battery test can be planned.

#### Typical applications

- IT rooms and other rack applications
- Industry 4.0
- Edge Computing
- IoT

- VFI topology (online / double conversion) protects against all network problems
- An increase of the available performance by approx. 20% through a 0.9 power factor
- Increased efficiency through the ECO mode
- Advanced battery charging technology for maximum durability of the battery
- Additional battery packs for easy scaling of the autonomy times
- Extension slot for communication cards; communication in parallel is possible through the RS232 / USB interface and SNMP
- Low height (2 U) including integrated batteries
- Switchable UPS outputs for load shedding
- Display of the UPS parameters on a graphic LCD, direct configuration is possible with the control panel
- Freely programmable potential-free contact plus emergency shutdown contact

### BENEFITS

- Easy battery replacement through front
- Several interfaces (RS232 / USB / Slot / EPO) as well as a potential free contact within the series ensure an outstanding communication capacity
- Multilingual graphic screen is very easy to read thanks to its large format
- The UPS can be directly administered with the control panel
- May also be used as a frequency converter
- Usable as rack or tower version

# Specifications

## STROM Z 1000, Z 1500, Z 2000, Z 3000

CLASSIFICATION VFI SS 111 ACC. TO IEC 62040-3	z 1000	z 1500	z 2000	z 3000
Power type rating	1000VA	1500VA	2000VA	3000
VA	900W	1350W	1800W	2700W
Part number UPS	600 002 4427	600 002 4429	600 002 4432	600 002 4433
Part number battery pack	600 002 4434	600 002 4435	600 002 4435	600 002 4436
<b>UPS INPUT</b>				
Input voltage	208 VAC / 220 VAC / 230 VAC / 240 VAC			
Voltage range without battery mode (load dependent)	120 – 276 VAC		120 – 276 VAC	
Frequency (auto selection)	50 Hz / 60 Hz $\pm$ 5 Hz			
Input power factor / (THDi)	$\geq$ 0.99 (THDi < 5%)			
Current consumption at nominal load (max.)	5 A	7 A	9 A	14 A
<b>UPS OUTPUT</b>				
Rated output voltage (adjustable)	208 VAC / 220 VAC / 230 VAC (default) / 240 VAC $\pm$ 2%			
Frequency in battery / frequency converter mode	50 Hz / 60 Hz $\pm$ 0.25 Hz			
Nominal output current (at 230 VAC)	4.3 A	6.5 A	8.7 A	13 A
Transfer time at mains outage	0 ms (without interruption)			
Voltage waveform	Sinusoidal, distortion THD <3%			
Overload response (double conversion mode)	<130 % for 12 s / 130 % – 150 % for 1.5 s / > 150 % for 100 ms			
Overload response (battery mode)	<130 % for 12 s / 130 % – 150 % for 1.5 s / > 150 % for 100 ms			
Crest factor	3 : 1			
Short circuit response	Inverter limits the current within 120ms			
<b>BATTERY</b>				
Type	Sealed, maintenance free, integrated, hot swappable			
Rated voltage (linked)	36 VDC	48 VDC		72 VDC
Battery management	Temperature compensated with discharge protection, automatic battery test			
<b>COMMUNICATION</b>				
Interfaces (dual monitoring)	RS232, USB, communication slot (can be used in parallel with RS232 / USB), Input contact for emergency shutdown, programmable potential free contact			
Shutdown software	CompuWatch incl. 5 network licenses for all common OS (e.g. Windows, Linux, Mac, Unix, Sun etc.)			
Failure indication (acoustic/visual)	Failure indicators (acoustic/visual), detailed indication via LCD display (alarms: at mains failure, overload, battery charging, battery replacement, fan fault, event data log – with clear text display incl. date and time history)			
<b>GENERAL DATA</b>				
Efficiency (ECO+ mode)	>95 %			
Efficiency at nominal load (double conversion mode)	$\geq$ 88%	>89%	>89%	$\geq$ 92%
Audible noise (1 m distance)	<45 dB(A)	<50 dB(A)		<50 dB(A)
Operating temperature range	0 – 40%			
Humidity	0 – 95% (without condensation)			
Operation altitude	Up to 3000 m at nominal load			
EMC conformity	EN 62040-2 Class C1, EN 61000-3-2, EN 61000-3-3			
Product safety	IEC 60950-1 / IEC 62040-1-1			
Number of outputs (switchable) automatically locked	8 x IEC 320 C13		8 x IEC 320 C13	8 x IEC 320 C13 + 1 x IEC 320 C19
Dimensions approx. W x H x D (mm) UPS	482.6 (19") x 88 (2 U) x 430		482.6 (19") x 88 (2 U) x 600	
Dimensions approx. W x H x D (mm) battery	482.6 (19") x 88 (2 U) x 430		482.6 (19") x 88 (2 U) x 600	
Weight approx. UPS incl. integrated battery	16 kg	19.7 kg	19.7 kg	29.5 kg
Weight approx. battery extension unit	23 kg	28 kg	28 kg	41 kg
Shipment	Mains input cord (EU), communications USB cable, operating & safety instructions, 1 x IEC device connection cable, rack mounting brackets, tower base feet			
Conformity	CE			

# Specifications

<b>STROM Z 6000, Z 10000</b>		
<b>CLASSIFICATION VFI SS 111 ACC. TO IEC 62040-3</b>	<b>z 6000</b>	<b>z 10000</b>
Power type rating (Ready for redundant or increased performance parallel operation)	6000 VA	10000
VA	6000 W	10000 W
Part number UPS	600 002 5604	600 002 5605
Part number for additional battery pack	600 002 4439	600 002 4440
<b>UPS INPUT</b>		
Input voltage	208 VAC / 220 VAC / 230 VAC / 240 VAC	
Voltage range without battery mode	176 VAC (120 VAC to 50% utilization) – 276 VAC	
Frequency (auto selection)	45-55 Hz / 54-66 Hz (extendable to 40-70 Hz when load < 60%)	
Input power factor / (THDi)	≥0.99 (THDi <5%)	
Current consumption at nominal load (max.)	32 A	50 A
<b>UPS OUTPUT</b>		
Rated output voltage (adjustable)	208 VAC / 220 VAC / 230 VAC (default) / 240 VAC ±1%	
Frequency in battery / frequency converter mode	50 Hz / 60 Hz ±0.5%	
Output current (at 230 VAC)	26 A	43.4 A
Transfer time at mains outage	0 ms (without interruption)	
Voltage waveform	Pure sine wave	
Overload response (double conversion mode)	<125 % for 10 min. / 130 – 150 % for 30 s, > 150 % for 500 ms	
Crest factor	3 : 1	
Short circuit response	Short circuit proof (3 x I <sub>N</sub> for 200 ms)	
<b>BATTERY</b>		
Type	Sealed, maintenance free, integrated, hot swappable	
Rated voltage (linked)	192 VDC	240 VDC
Battery management	Temperature compensated with discharge protection, automatic battery test (programmable)	
<b>COMMUNICATION</b>		
Interfaces (dual monitoring)	RS232, USB, communication slot (can be used in parallel with RS232 / USB), input contact for emergency shutdown, programmable potential free contact	
Shutdown software	CompuWatch incl. 5 network licenses for all common OS (e.g. Windows, Linux, Mac, Unix, Sun etc.)	
Failure indicators (acoustic/visual)	Detailed indication via LCD display (alarms: at mains failure, overload, battery charging, battery replacement, fan fault, event data log – with clear text display incl. date and time history)	
<b>GENERAL DATA</b>		
Efficiency (ECO mode)	>98 %	>98 %
Efficiency at nominal load (double conversion mode)	>95 %	>95 %
Audible noise (1m distance)	<55 dB(A)	<60 dB(A)
Operating temperature range	0° – 40 °C	
Humidity	0 – 95 % (without condensation)	
Operation altitude	Up to 1000 m at nominal load	
EMC conformity	EN 62010-2 Class C2	
Product safety	EN 62040-1	
AC input	Permanent connection via terminals. Power PDU from UPS input and output connectors with integrated manual bypass switch. Cable entry possible from top, bottom or rear.	
Number of outputs	UPS: 1 x fixed connection on terminal block + 2 x IEC 320 C13, Connection Unit: 4 x IEC 320 C13 + 2 x IEC 320 C19	
Dimensions approx. W x H x D (mm)	482.6 (19") x 86 (2U) x 573	
Dimensions approx. W x H x D (mm) battery extension unit	482.6 (19") x 129 (3 U) x 595	
Weight approx. without batteries	13 kg	14.7 kg
Weight approx. with batteries	58 kg	75 kg
Weight approx. battery extension unit	44.5 kg	63 kg
Shipment	USB cable, parallel cable, operating & safety instructions, rack mounting brackets, tower base feet	
Conformity	CE	

**Systrome Power Solutions**

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