STROM L

Industrial UPS with highly flexible configuration 10 – 120 kVA 3 phase 10 – 160 kVA 1 phase

Input 380/400/415 VAC 3 phase Output 380/400/415 VAC 3 phase 220/230/240 VAC 1 phase

Other input/output values available on request

Industrial-grade UPS with a building block architecture

The state-of-the-art, double conversion topology and "building block" design of the Strom L Uninterruptible Power Supply (UPS) series is flexible. The system ensures the continuous availability of power and safe operations for all types of critical load. In theStrom range, the L system meets practically all conceivable requirements to secure power for highly demanding applications in heavy industries or infrastructures and is suitable for use in harsh environments. Strom L concept is continuously further developed, as we learn through experience. With an expected lifetime at least 20 years, the Strom L is a robust and cost – effective solution, optimized for minimal operating costs.

FEATURES

Typical applications

For all industrial applications

- Oil & Gas
- Petrochemical
- Power generation
- Transportation
- Heavy industry

- Redundant parallel operation
- High efficiency
- Potential free output voltage
- Electrical galvanic isolation with low noise level
- Full redundant control architecture
- Very fast dynamic response time
- Output short circuit proof
- Wide range of ratings with IP protection up to 43 as standard
- EMC immunity and emission better than IEC 62040
- 18 imbedded languages as standard
- Low voltage ripple to prolong battery
- life timeIntelligent battery charge and
- monitoring control
- Lithium Ion Battery charging options ready and available

BENEFITS

- •_Dedicated to very harsh environments
- Robust and reliable solution suitable for stringent seismic spectrums, high humidity level and temperature range, able to operate up to 4000 m above sea level

• Highly flexible configuration

- Building block design benefits: Easier to customize, because the
 - main functions of the unit are split in separated blocks, increasing the possible combinations and improving the lead time
 - Easier to upgrade, in terms of power or options, because of the same structure
 Better for maintenance (lower MTTR).
- High short-circuit resistance
- High overload capability protection
- Easy to operate
- Complies with all relevant international standards
- Easy service for more than 20 years of life span

Specifications

RECTIFIER UNIT			
Nominal DC voltage	108 V	216 V	384 V
Nominal AC voltage	3 x 400 V (3 x 380 V, 3 x 415 V)*		
Input frequency range	50 / 60 Hz ±10 %*		
Operation range (min./max.)	340 V - 460 V		
Input current in A at nominal load	17-102 A	18-200 A	270 A
Rectifier type			
– Standard	6 pulse		
– Option		Filter / 12 pulse	
INVERTER UNIT			
DC Input	108 V ±20 %	216 V ±20%	384 V ±20%
@3 phase output voltage configuration			
– Nominal AC voltage in V	3 x 400 V (3 x 380 V, 3 x 415 V)*		-
– Nominal output current in A	14 – 87A	14 – 173 A	-
– Nominal power in kVA	10-60 kVA	10 – 120 kVA	-
@1 phase output voltage configuration			
– Nominal AC voltage in V	230 V (220 V, 240 V)*		
– Nominal output current in A	22 – 261 A	43-522A	696 A
– Nominal power in kVA	5-60 kVA	10 – 120 kVA	160 kVA
Output voltage static response	<±1%		
Output voltage dynamic response	<±2%		
Recovery time	2 ms		
Frequency	50/60 Hz		
Frequency static tolerance	±0.1%		
Frequency synchronization range	±1% (±2%, ±3%)		
Power factor at nominal load	Cos φ 0.8		
Voltage wave form	Sinusoidal		
Crest factor	≤۲		
Overload response 1 min.	150 %		
Overload response 10 min.	125%		
nort circuit response ≤3 Inominal			
STATIC BYPASS SWITCH		1	
Nominal AC voltage (@ 3 phase output)	3 x 400 V (3 x 380 V, 3 x 415 V)*	3 x 400 V (3 x 380 V, 3 x 415 V)*	-
Nominal AC voltage (@ 1 phase output)	230 V (220 V, 240 V)*		
Nominal Frequency		50/60 Hz	
GENERAL DATA			
Efficiency depending on rating	Up to 90% / >95% with ECO Mode		
Degree of protection	IP20 (option up to IP43)*		
Noise level depending on rating	<61-76 dB (A)		
Color	RAL 7035		
Operation temperature	-10 °C to 40 °C (without derating)		
Storage temperature	-30 °C to 75 °C		
Maximum altitude without derating		1000 m	
STANDARDS			
Safety	IEC 62040 - 1		
EMC immunity and emission	IEC 62040 - 2		
Performance	IEC 62040 - 3		
CE marking	Yes		

*other on request

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