

POWER SOLUTIONS

PROTECT 8 S10

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 Protect 8 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 the Protect 8 range, the S10 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. Protect 8 concept is continuously further developed, as we learn through experience. With an expected lifetime at least 20 years, the Protect 8 is a robust and cost – effective solution, optimized for minimal operating costs.

Typical applications

For all industrial applications

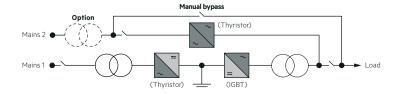
- Oil & Gas
- · Petrochemical
- Power generation
- Transportation
- Heavy industry

FEATURES

- 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 time
- Intelligent 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	100 V	3 x 400 V (3 x 380 V, 3 x 415 V)*	354 ¥	
nput frequency range	50 / 60 Hz ±10 %*			
Operation range (min./max.)	340V-460V			
nput current in A at nominal load	17 – 102 A			
Rectifier type	17 - 102 A	10-200A	2707	
– Standard		6 pulse		
– Option		Filter/12 pulse		
NVERTER UNIT		Tiller/ 12 puise		
DC Input	108 V ±20 %	216 V ±20%	384 V ±20%	
@3 phase output voltage configuration	100 V ±20 /6	Z 10 V -20%	304 V ±20%	
– Nominal AC voltage in V	3 v 400 V (3 v	3 x 400 V (3 x 380 V, 3 x 415 V)* -		
	14 – 87A	14 – 173 A		
– Nominal output current in A	10-60 kVA	10 – 120 kVA		
– Nominal power in kVA @1 phase output voltage configuration	10-00 KVA	10 - 120 KVA		
– Nominal AC voltage in V		230 V (220 V, 240 V)*		
	22 241 4	43-522A	404 A	
Nominal output current in A Nominal power in kVA	22-261A 5-60kVA	43-522A 10-120 kVA	696 A 160 kVA	
Output voltage static response	3-80KVA	10-120KVA <±1%	IOURVA	
Output voltage static response	< ±1 % < ±2 %			
Recovery time	2 ms			
requency	50/60 Hz ±0.1%			
Frequency static tolerance	±0.1% ±1% (±2%, ±3%)			
Frequency synchronization range Power factor at nominal load	Cos φ 0.8			
/oltage wave form	Sinusoidal ≤3			
Crest factor				
Overload response 1min.	150%			
Overload response 10 min.	125 %			
Short circuit response		≤3 Inominal		
STATIC BYPASS SWITCH	- (20)(F - 20)(F - (45)(2)	- 1001/67 - F001/F - 1451/D		
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

AEG Power Solutions

Approach your local AEG Power Solutions representative for further support. Contact details can be found on: www.aegps.com