AEG

POWER
SOLUTIONS

Protect 8 S14

Industrial-grade monoblock UPS
Input voltage 380 / 400 / 415 VAC 3 phase
Output voltage 380 / 400 / 415 VAC 3 phase
220 / 230 / 240 VAC 1 phase

Industrial UPS with compact design
The state-of-the-art, double-conversion topology and design of the Protect 8 UPS series is flexible and can meet practically all customer requirements. The system is suitable for use in harsh environments.

Protect 8 S14 is a robust and easy to operate UPS, meeting the relevant EMC and other international standards. With an expected lifetime of at least 20 years, the Protect 8 S14 is a rugged and cost-effective solution optimized for minimal operating costs. Designed for highly demanding applications, the Protect 8 S14 will ensure safe operation of all types of critical loads, delivering total control wherever reliability, availability and maintainability are required.

Typical applications
For all industrial applications
- Oil & Gas, Petrochemical (offshore, onshore, pipelines)
- Energy and Power (generation, transmission, distribution)
- Transportation (rail, airports, shipping, highways, tunnels)
- Water (desalination, treatment)
- Instrumentation & Process control (chemicals, mining, steel, paper, emergency lightning)
- All industrial production processes

FEATURES

- Redundant parallel operation up to 8 UPS in parallel
- High efficiency
- Small footprint
- Isolated output voltage – Inverter transformer provides output isolation from DC-voltage, enables the use of two separate mains sources
- Fully redundant control architecture
- Fast dynamic response time
- Short circuit protect output
- Redundant and monitored fan control
- EMC immunity and emissions, meets or exceeds IEC 62040-2 requirements
- Versatile communication capabilities
- 18 imbedded languages as standard
- Low voltage ripple to prolong battery life time
- Intelligent battery charge and monitoring control
- Large battery voltage range
- Lithium Ion Battery charging options available

BENEFITS

- **Without input transformer – unique solution available on the market**
- Dedicated to very harsh environments
- Compact design with small foot print
- High overload capacity
- High efficiency even at low output power
- User friendly, easy to operate, easy to maintain
- Easy service for more than 20 years of life span
- Robust and reliable solution suitable for stringent seismic spectrum
- High humidity level and temperature range, able to operate up to 4000 m above sea level

Specifications

RECTIFIER UNIT		
Nominal DC voltage	384 V	
Nominal AC voltage	3 x 400 V (3 x 380 V, 3 x 415 V)	
Input frequency range	50 Hz/60 Hz ±10 %	
Operation range (min./max.)	340 V – 460 V	
Input current at nominal load	17 – 195 A	
Rectifier type		
– Standard	6 pulse	
– Option	Filter/12 pulse	
INVERTER UNIT		
DC Input	384 V ±20 %	
@3 phase output voltage configuration		
– Nominal AC voltage	3 x 400 V (3 x 380 V, 3 x 415 V)	
– Nominal output current	14 – 173 A	
– Nominal power	10 – 120 kVA	
@1 phase output voltage configuration		
– Nominal AC voltage	230 V (220 V, 240 V)	
– Nominal output current	43 – 261 A	
– Nominal power	10 – 60 kVA	
Output voltage static stability	< ±1 %	
Output voltage dynamic response	< ±2 %	
Recovery time	2 ms	
Frequency	50/60 Hz	
Frequency static stability (on internal clock)	±0.1 %	
Frequency synchronization range	±1 % (±2 %, ±3 %)	
Power factor at nominal load	Capacitive to inductive over entire cos - range	
Voltage wave form	Sinusoidal	
Crest factor	≤3	
Overload capacity 1 min.	150 %	
Overload capacity 10 min.	125 %	
Short circuit response	≤2.7 I nominal	
STATIC BYPASS SWITCH		
Nominal AC voltage (@ 3 phase output)	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 94 % / >95 % with ECO Mode	
Degree of protection	IP20 (option up to IP43)*	
Noise level depending on rating	<62 – 70 dB (A)	
Color	RAL 7035	
Operation temperature	-10 °C to 40 °C (without derating)	
Storage temperature	-30 °C to 75 °C	
Maximum altitude	1000 m (without derating)	
STANDARDS		
Safety	IEC 62040 - 1	
EMC immunity and emission	IEC 62040 - 2	
Performance	IEC 62040 - 3	
Environment	RoHS (2011/65/EU)	WEEE(2012/19/EU)
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