

## Protect 5C

Industrial UPS with highly flexible configuration  
10 – 200 kVA

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



### Flexible industrial UPS with digital intelligent control technology

The Protect 5C series is an advanced UPS power supply that combines online double-conversion technology with digital intelligent control to deliver exceptional reliability. It's engineered for harsh power environments where uptime is critical.

#### Typical applications

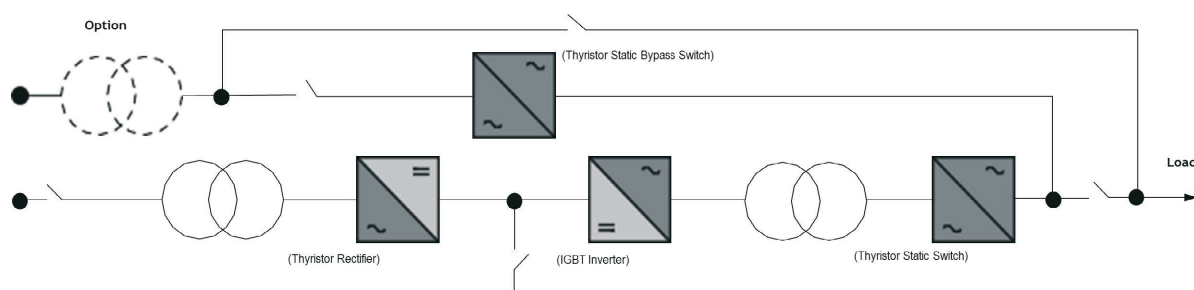
- Oil & Gas refinery
- Petrochemical
- Water & Wastewater
- Transportation
- Continuous Process Industry

## FEATURES

- Modern control technology
- Output power factor 0.9
- Low noise
- Very fast dynamic response time
- Output short circuit proof
- Multilingual operation HMI with large screen
- Multiple communication protocols
- Convenient for expanding capacity
- Efficient heat-dissipation duct
- Input and output galvanic isolation
- Special protective circuit board design
- Intelligent battery management
- Multiple battery technologies and voltages (Lead-acid, Ni-Cad, Li-ion, SMC, etc.)

## BENEFITS

- Designed for harsh environments
- Robust and reliable solution
- High short-circuit resistance
- High flexible configuration
- High overload capability protection
- Easy to operate
- Long lifespan



# Specifications

RECTIFIER			
Nominal AC voltage	3 X 400 V (3 X 380 V, 3 X 415 V) <sup>1</sup>		
Input frequency range	50/60 Hz ± 10%		
Operation range (min./ max.)	285V- 498V		
Nominal DC voltage	108V	216V	384V
Rectifier type			
- Standard	6 pulse		
- Option	5th/11th filter/12 pulse		
INVERTER			
DC Input	108V (86-140V)	216V (170-279V)	384 (307-499V)
@3 phase output voltage configuration			
- Nominal AC voltage in V	3 X 400 V (3 X 380 V, 3 x 415 V) <sup>1</sup>		
- Nominal power in kVA	10-100kVA	10-200kVA	
@1 phase output voltage configuration			
- Nominal AC voltage in V	220v/230V/240V <sup>1</sup>		
- Nominal power in kVA	10-100kVA	10-200kVA	
Output voltage static response	< ± 1%		
Output voltage dynamic response	< ± 3%		
Recovery time	≤ 20ms		
Frequency	50/ 60Hz		
Frequency static tolerance	±0.05%		
Frequency synchronization range	±0.5-±3Hz (Setting)		
Power factor at nominal load	Cos φ 0.9		
Voltage wave form	Sinusoidal		
Crest factor	3:1		
Overload response 1 min.	150%		
Overload response 10 min.	125%		
Short circuit response	2.2 In, 60ms		
STATIC SWITCH			
Nominal AC voltage (@ 3 phase output)	3 X 400 V (3 X 380 V, 3 X 415 V) <sup>1</sup>		
Nominal AC voltage (@1 phase output)	220V/230V/240V <sup>1</sup>		
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) <sup>1</sup>		
Audible noise (at 1m from front)	60 - 70dB (A)		
Color	RAL 7035 <sup>1</sup>		
Operation temperature	0° C to 40° C (without derating)		
Storage temperature	-25° C to 70° C		
Maximum altitude without derating	1000 m		
USER INTERFACE			
HMI	7" LCD Color Touchscreen, 3x LEDs for status and alarm		
Comms ports	RS232, RS485, dry contacts, RJ45 (optional)		
Protocols	Modbus RTU, Modbus TCP/IP (optional), SNMP (optional), IEC61850 (optional)		
STANDARD			
Safety	IEC 62040 - 1		
EMC immunity and emission	IEC 62040 - 2		
Performance	IEC 62040 - 3		

<sup>1</sup> 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](http://www.aegps.com)

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