

# PROTECT 8

## INDUSTRIAL UPS

**Protect 8.31 Single Phase output**  
10 kVA – 80 kVA

**Protect 8.33 Three Phase output**  
10 kVA – 120 kVA

400 VAC input  
216 VDC link  
384 VDC link



### Engineering is our business

UPS systems from AEG Power Solutions ensure the continuous availability of all global industrial requirements in oil & gas, petrochemical, power generation, transportation and other heavy industries.

### Robust, efficient, reliable & flexible

The state-of-the-art, double-conversion topology and design of the Protect 8 is flexible, meets practically all conceivable customer requirements and is suitable for use in harsh environments.

With the Protect 8 you will benefit from a robust and easy to operate UPS meeting the relevant EMC and other international standards. It can be custom-designed for use in harsh industrial environments. With an expected lifetime of at least 20 years, the Protect 8 is a robust and cost-effective solution optimized for minimal operating costs. Designed for highly demanding applications, the Protect 8 will ensure safe operation of your critical loads, delivering total control wherever reliability, availability and maintainability are required.

### Designed for all industrial applications

- » Oil & Gas, Petrochemicals (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

## KEY FEATURES



### Full digital control

- » High reliability (no potentiometers)
- » High flexibility (software controlled parameters)
- » Fast dynamic response

Ergonomic control unit with high resolution graphical display.

### High efficiency even at low output power

- » Reduced operating costs
- » Reduced air conditioning requirements
- » Reduced battery AH requirements

### Oversized components

- » Higher reliability and MTBF
- » High overload capacity
- » Input isolation transformer (216 VDC version)
- » Output isolation transformer
- » Standardized modules
- » Low maintenance
- » Short circuit resistant

### Redundant controls

- » Separate microprocessors for rectifier, inverter and static bypass switch
- » Separate and redundant power supplies for control cards
- » Redundant and monitored fans

- » Compatible with vented Lead Acid, Valve Regulated Lead Acid (VRLA) and Nickel Cadmium batteries
- » Intelligent battery management, test and status diagnostics
- » Designed to operate with diesel generators

### High protection degree

- » Ready for harsh environment
- » IP rating possible up to IP43
- » Strong mechanical design
- » Seismic proof (optional)

### Capable of communications with computer and control systems (SCADA, ESD, DCS, BMS)

- » Modbus / J-bus
- » Profibus
- » Monitoring software
- » Ethernet, SNMP...
- » Remote monitoring and control capabilities (programmable)
- » System and alarm status via potential free contacts

### Complete system

Protect 8 is a true on-line double conversion UPS classified as VFI SS 111 according to IEC 62040-3

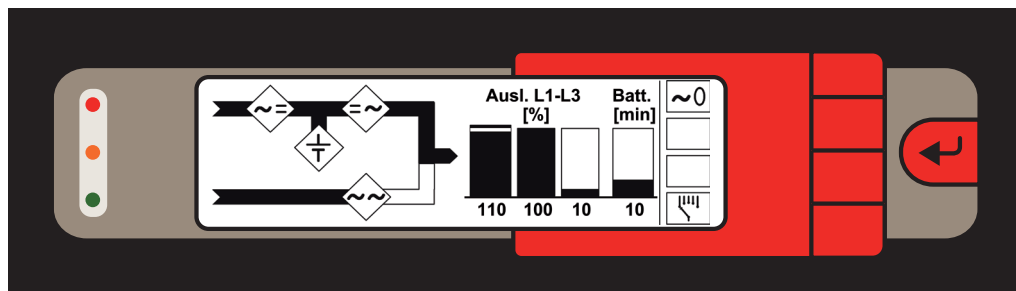
### The outstanding UPS range features

- » On-line operation ensuring permanent service
- » Microprocessor-driven control and command system to provide reliable power supply
- » A battery management system that ensures life time and cuts operating costs
- » A broad range of output power ratings, battery autonomy times and options to meet the need of complex applications

### The UPS offers a very high level of protection for users and connected equipment

- » High intermittent overload capability
- » High level short circuit strength
- » N-conductor with full loading capacity (3 phase systems)
- » Excellent dynamic response can easily handle high loads

## UNIQUE DESIGN



### Parallel operation for capacity and performance

Protect 8 protects your processes even in cases of significantly greater power requirements or particularly exacting reliability requirements. This is ensured by a unique Flexible Multi-Master Technology (FMMT) in parallel mode. This technology is realized by high-speed, robust and redundant communication via the CAN bus which is now in widespread use in safety systems employed, for example, in the automotive industry. Two individual units continuously undertake master functions. Each individual unit can take over this master function instantaneously, if required, by a defined strategy on the basis of the situation in the overall system.

AEG PS parallel systems are characterized by their high levels of availability, robustness and reliability in industrial applications. Flexible Multi-Master Technology and CAN bus communication enables up to 8 UPS' to be connected in parallel for increased power, redundancy or system upgrade.

Parallel UPS' can be operated with a central battery.

### Three microprocessor control system

These microprocessors simultaneously monitor and control the rectifier, inverter and static switch units.

This control has been specially designed to provide a high reliable power supply.

### Display and Operating Unit

Intelligent Display and Operation Unit (DOU) with automatic system recognition, general status via colored LEDs, acoustic signals, multilingual menu display in 18 languages, simple operation by display buttons, display icons for the power flow, digital display values, unit status with text display, real-time clock, menu-driven system start-up and data logger for malfunction history with time stamp (750 events).

Battery test and system test can be activated by the menu.

### End to end solutions

Exact solutions engineered for each application

#### Possible UPS configurations

- » Single systems
- » Parallel systems
- » Inverter system

#### Additional system equipment

- » Bypass transformer
- » Voltage stabilizers
- » Maintenance Bypass Switch
- » AC distribution panels
- » Battery cubicles
- » Explosion proof battery circuit breaker enclosures

#### Project management

- » Quality plan
- » Project planning
- » Progress reviews
- » Manufacturing reviews
- » Factory acceptance tests
- » Site acceptance test

#### Customized documentation

- » Text translations to any language
- » Document numbering

# PROTECT 8.31

SPECIFICATION  
SINGLE PHASE OUTPUT  
216 VDC



| MODEL   | P8.31-10   | P8.31-20          | P8.31-30            | P8.31-40            | P8.31-60 | P8.31-80 |
|---|--|-------------------|---------------------|---------------------|----------|----------|
| Nominal rating (at cos φ 0.8 lag) in kVA                    | 10   | 20                | 30                  | 40                  | 60       | 80       |
| RECTIFIER UNIT  |  |                   |                     |                     |          |          |
| Input nominal voltage                                       | 3 x 400 V (3 x 380 V, 3 x 415 V)   |                   |                     |                     |          |          |
| Input operating range (min. / max.)                         | 340 V – 460 V  |                   |                     |                     |          |          |
| Frequency   | 50 / 60 Hz ±10 %   |                   |                     |                     |          |          |
| Input current in A at nominal load                          | 16   | 35                | 56                  | 68                  | 100      | 134      |
| Charging characteristic to IEC 478-10                       | IU   |                   |                     |                     |          |          |
| Nominal DC voltage  | 220 V  |                   |                     |                     |          |          |
| Rectifier type<br>- Standard<br>- Optional                  | 6 pulse<br>Filter  | 6 pulse<br>Filter | 6 pulse<br>12 pulse | 6 pulse<br>12 pulse | 12 pulse | 12 pulse |
| INVERTER UNIT   |  |                   |                     |                     |          |          |
| DC input  | 216 V ±20 %  |                   |                     |                     |          |          |
| Nominal AC voltage  | 230 V (220 V, 240 V)   |                   |                     |                     |          |          |
| Output voltage static response                              | < ±1 %   |                   |                     |                     |          |          |
| Output voltage dynamic response                             | < ±2 %   |                   |                     |                     |          |          |
| Recovery time   | 1 ms   |                   |                     |                     |          |          |
| Frequency   | 50 / 60 Hz   |                   |                     |                     |          |          |
| Frequency tolerance without mains                           | ±0.1 %   |                   |                     |                     |          |          |
| Frequency synchronization range                             | ±1 % (±2 %, ±3 %)  |                   |                     |                     |          |          |
| Power factor range  | capacitive to inductive over entire cos φ-range                                  |                   |                     |                     |          |          |
| Unbalanced-load response                                    | at 100 % unbalanced load: voltage deviation <2 %; angle deviation <2 degrees el. |                   |                     |                     |          |          |
| Output phase current in A                                   | 43   | 87                | 130                 | 174                 | 261      | 348      |
| Voltage wave form   | sinusoidal   |                   |                     |                     |          |          |
| Voltage distortion  | ≤3 %   |                   |                     |                     |          |          |
| Crest factor  | max. 3   |                   |                     |                     |          |          |
| Overload response 1 min.                                    | 150 %  |                   |                     |                     |          |          |
| Overload response 10 min.                                   | 125 %  |                   |                     |                     |          |          |
| Short circuit response                                      | short circuit proof, short circuit current 2.7 x I <sub>nom</sub>                |                   |                     |                     |          |          |
| STATIC BYPASS SWITCH  |  |                   |                     |                     |          |          |
| AC voltage  | 230 V (220 V, 240 V)   |                   |                     |                     |          |          |
| Frequency   | 50 / 60 Hz   |                   |                     |                     |          |          |
| Nominal power in kVA  | 10   | 20                | 30                  | 40                  | 60       | 80       |
| GENERAL DATA  |  |                   |                     |                     |          |          |
| Efficiency (AC to AC) – typical                             | up to 90 %   |                   |                     |                     |          |          |
| Noise level depending on rating                             | <55 – 70 dB (A)  |                   |                     |                     |          |          |
| EMC compatibility   | EN 62040-2   |                   |                     |                     |          |          |
| Air cooling with redundant and monitored fans               | Yes  |                   |                     |                     |          |          |
| Operating temperature range min. / max. (without de-rating) | – 5 °C / +40 °C  |                   |                     |                     |          |          |
| Storage temperature range min. / max.                       | – 30 °C / +75 °C   |                   |                     |                     |          |          |
| Maximum altitude without de-rating                          | 1000 m   |                   |                     |                     |          |          |
| Protection degree IEC 529/EN 60529 standard system          | IP20 / optional IP21, IP32, IP43   |                   |                     |                     |          |          |
| Equipment color   | RAL 7035 (other colors on request)   |                   |                     |                     |          |          |
| WEIGHTS AND DIMENSIONS                                      |  |                   |                     |                     |          |          |
| Height standard UPS (mm)                                    | 1810   | 1810              | 1810                | 1810                | 1810     | 1810     |
| Height with max. options (mm)                               | 1915   | 1915              | 1915                | 1915                | 2015     | 2015     |
| Width (mm)  | 600  | 600               | 900                 | 900                 | 1500     | 1500     |
| Depth (mm)  | 860  | 860               | 860                 | 860                 | 860      | 860      |
| Weight (kg) ~   | 350  | 500               | 700                 | 700                 | 1000     | 1200     |

# PROTECT 8.33

SPECIFICATION  
THREE PHASE OUTPUT  
216 VDC



| MODEL  | P8.33-10   | P8.33-20          | P8.33-30            | P8.33-40            | P8.33-60 | P8.33-80 | P8.33-100 | P8.33-120 |
|--|--|-------------------|---------------------|---------------------|----------|----------|-----------|-----------|
| Nominal rating (at cos ϕ 0.8 lag) in kVA                       | 10   | 20                | 30                  | 40                  | 60       | 80       | 100       | 120       |
| RECTIFIER UNIT   |  |                   |                     |                     |          |          |           |           |
| Input nominal voltage  | 3 x 400 V (3 x 380 V, 3 x 415 V)   |                   |                     |                     |          |          |           |           |
| Input operating range (min. / max.)                            | 340 V – 460 V  |                   |                     |                     |          |          |           |           |
| Frequency  | 50 / 60 Hz ±10 %   |                   |                     |                     |          |          |           |           |
| Input current in A at nominal load                             | 16   | 35                | 56                  | 68                  | 100      | 134      | 166       | 200       |
| Charging characteristic to IEC 478-10                          | IU   |                   |                     |                     |          |          |           |           |
| Nominal DC voltage   | 220 V  |                   |                     |                     |          |          |           |           |
| Rectifier type<br>- Standard<br>- Optional                     | 6 pulse<br>Filter  | 6 pulse<br>Filter | 6 pulse<br>12 pulse | 6 pulse<br>12 pulse | 12 pulse | 12 pulse | 12 pulse  | 12 pulse  |
| INVERTER UNIT  |  |                   |                     |                     |          |          |           |           |
| DC input   | 216 V ±20 %  |                   |                     |                     |          |          |           |           |
| Nominal AC voltage   | 3 x 400 V (3 x 380 V, 3 x 415 V)   |                   |                     |                     |          |          |           |           |
| Output voltage static response                                 | < ±1 %   |                   |                     |                     |          |          |           |           |
| Output voltage dynamic response                                | < ±2 %   |                   |                     |                     |          |          |           |           |
| Recovery time  | 1 ms   |                   |                     |                     |          |          |           |           |
| Frequency  | 50 / 60 Hz   |                   |                     |                     |          |          |           |           |
| Frequency tolerance without mains                              | ±0.1 %   |                   |                     |                     |          |          |           |           |
| Frequency synchronization range                                | ±1 % (±2 %, ±3 %)  |                   |                     |                     |          |          |           |           |
| Power factor range   | capacitive to inductive over entire cos ϕ-range                                  |                   |                     |                     |          |          |           |           |
| Unbalanced-load response                                       | at 100 % unbalanced load: voltage deviation <2 %; angle deviation <2 degrees el. |                   |                     |                     |          |          |           |           |
| Output phase current in A                                      | 14   | 29                | 43                  | 58                  | 87       | 116      | 145       | 173       |
| Voltage wave form  | sinusoidal   |                   |                     |                     |          |          |           |           |
| Voltage distortion   | ≤3 %   |                   |                     |                     |          |          |           |           |
| Crest factor   | max. 3   |                   |                     |                     |          |          |           |           |
| Overload response 1 min.                                       | 150 %  |                   |                     |                     |          |          |           |           |
| Overload response 10 min.                                      | 125 %  |                   |                     |                     |          |          |           |           |
| Short circuit response   | short circuit proof, short circuit current 2.7 x I <sub>nom</sub>                |                   |                     |                     |          |          |           |           |
| STATIC BYPASS SWITCH   |  |                   |                     |                     |          |          |           |           |
| AC voltage   | 3 x 400 V (3 x 380 V, 3 x 415 V)   |                   |                     |                     |          |          |           |           |
| Frequency  | 50 / 60 Hz   |                   |                     |                     |          |          |           |           |
| Nominal power in kVA   | 10   | 20                | 30                  | 40                  | 60       | 80       | 100       | 120       |
| GENERAL DATA   |  |                   |                     |                     |          |          |           |           |
| Efficiency (AC to AC) – typical                                | up to 90 %   |                   |                     |                     |          |          |           |           |
| Noise level depending on rating                                | <55 – 70 dB (A)  |                   |                     |                     |          |          |           |           |
| EMC compatibility  | EN 62040-2   |                   |                     |                     |          |          |           |           |
| Air cooling with redundant and monitored fans                  | Yes  |                   |                     |                     |          |          |           |           |
| Operating temperature range<br>min. / max. (without de-rating) | –5 °C / +40 °C   |                   |                     |                     |          |          |           |           |
| Storage temperature range min. / max.                          | –30 °C / +75 °C  |                   |                     |                     |          |          |           |           |
| Maximum altitude without de-rating                             | 1000 m   |                   |                     |                     |          |          |           |           |
| Protection degree IEC 529/EN 60529<br>standard system          | IP20 / optional IP21, IP32, IP43   |                   |                     |                     |          |          |           |           |
| Equipment color  | RAL 7035 (other colors on request)   |                   |                     |                     |          |          |           |           |
| WEIGHTS AND DIMENSIONS   |  |                   |                     |                     |          |          |           |           |
| Height standard UPS (mm)                                       | 1810   | 1810              | 1810                | 1810                | 1810     | 1810     | 1810      | 1810      |
| Height with max. options (mm)                                  | 1915   | 1915              | 1915                | 1915                | 2015     | 2015     | 2015      | 2015      |
| Width (mm)   | 600  | 600               | 900                 | 900                 | 1500     | 1500     | 1500      | 1500      |
| Depth (mm)   | 860  | 860               | 860                 | 860                 | 860      | 860      | 860       | 860       |
| Weight (kg) ~  | 600  | 600               | 700                 | 700                 | 1100     | 1100     | 1700      | 1700      |



# PROTECT 8.31

SPECIFICATION  
SINGLE PHASE OUTPUT  
384 VDC



| MODEL  | P8.31-10   | P8.31-20                | P8.31-30            | P8.31-40            |
|--|--|-------------------------|---------------------|---------------------|
| Nominal rating (at cos φ 0.8 lag) in kVA                       | 10   | 20                      | 30                  | 40                  |
| RECTIFIER UNIT   |  |                         |                     |                     |
| Input nominal voltage  | 3 x 400 V (3 x 380 V, 3 x 415 V)   |                         |                     |                     |
| Input operating range (min. / max.)                            | 340 V – 460 V  |                         |                     |                     |
| Frequency  | 50 / 60 Hz ±10 %   |                         |                     |                     |
| Input current in A at nominal load                             | 17   | 33                      | 50                  | 66                  |
| Charging characteristic to IEC 478-10                          | IU   |                         |                     |                     |
| Nominal DC voltage   | 384 V  |                         |                     |                     |
| Rectifier type<br>- Standard<br>- Optional 12 pulse            | 6 pulse<br>Mains filter  | 6 pulse<br>Mains filter | 6 pulse<br>12 pulse | 6 pulse<br>12 pulse |
| INVERTER UNIT  |  |                         |                     |                     |
| DC input   | 384 V ±20 %  |                         |                     |                     |
| Nominal AC voltage   | 230 V (220 V, 240 V)   |                         |                     |                     |
| Output voltage static response                                 | < ±1 %   |                         |                     |                     |
| Output voltage dynamic response                                | < ±2 %   |                         |                     |                     |
| Recovery time  | 1 ms   |                         |                     |                     |
| Frequency  | 50 / 60 Hz   |                         |                     |                     |
| Frequency tolerance without mains                              | ±0.1 %   |                         |                     |                     |
| Frequency synchronization range                                | ±1 % (±2 %, ±3 %)  |                         |                     |                     |
| Power factor range   | capacitive to inductive over entire cos φ-range                                  |                         |                     |                     |
| Unbalanced-load response                                       | at 100 % unbalanced load: voltage deviation <2 %; angle deviation <2 degrees el. |                         |                     |                     |
| Output phase current in A                                      | 43   | 87                      | 130                 | 174                 |
| Voltage wave form  | sinusoidal   |                         |                     |                     |
| Voltage distortion   | ≤3 %   |                         |                     |                     |
| Crest factor   | max. 3   |                         |                     |                     |
| Overload response 1 min.                                       | 150 %  |                         |                     |                     |
| Overload response 10 min.                                      | 125 %  |                         |                     |                     |
| Short circuit response   | short circuit proof, short circuit current 2.7 x I <sub>nom</sub>                |                         |                     |                     |
| STATIC BYPASS SWITCH   |  |                         |                     |                     |
| AC voltage   | 230 V (220 V, 240 V)   |                         |                     |                     |
| Frequency  | 50 / 60 Hz   |                         |                     |                     |
| Nominal power in kVA   | 10   | 20                      | 30                  | 40                  |
| GENERAL DATA   |  |                         |                     |                     |
| Efficiency (AC to AC) – typical                                | up to 92 %   |                         |                     |                     |
| Noise level depending on rating                                | <55 – 70 dB (A)  |                         |                     |                     |
| EMC compatibility  | EN 62040-2   |                         |                     |                     |
| Air cooling with redundant and monitored fans                  | Yes  |                         |                     |                     |
| Operating temperature range<br>min. / max. (without de-rating) | –5 °C / +40 °C   |                         |                     |                     |
| Storage temperature range min. / max.                          | –30 °C / +75 °C  |                         |                     |                     |
| Maximum altitude without de-rating                             | 1000 m   |                         |                     |                     |
| Protection degree IEC 529/EN 60529<br>standard system          | IP20 / optional IP21, IP32, IP43   |                         |                     |                     |
| Equipment color  | RAL 7035 (other colors on request)   |                         |                     |                     |
| WEIGHTS AND DIMENSIONS   |  |                         |                     |                     |
| Height standard UPS (mm)                                       | 1810   | 1810                    | 1810                | 1810                |
| Height with max. options (mm)                                  | 1915   | 1915                    | 1915                | 1915                |
| Width (mm)   | 600  | 600                     | 900                 | 900                 |
| Depth (mm)   | 860  | 860                     | 860                 | 860                 |
| Weight (kg) ~  | 275  | 325                     | 375                 | 550                 |

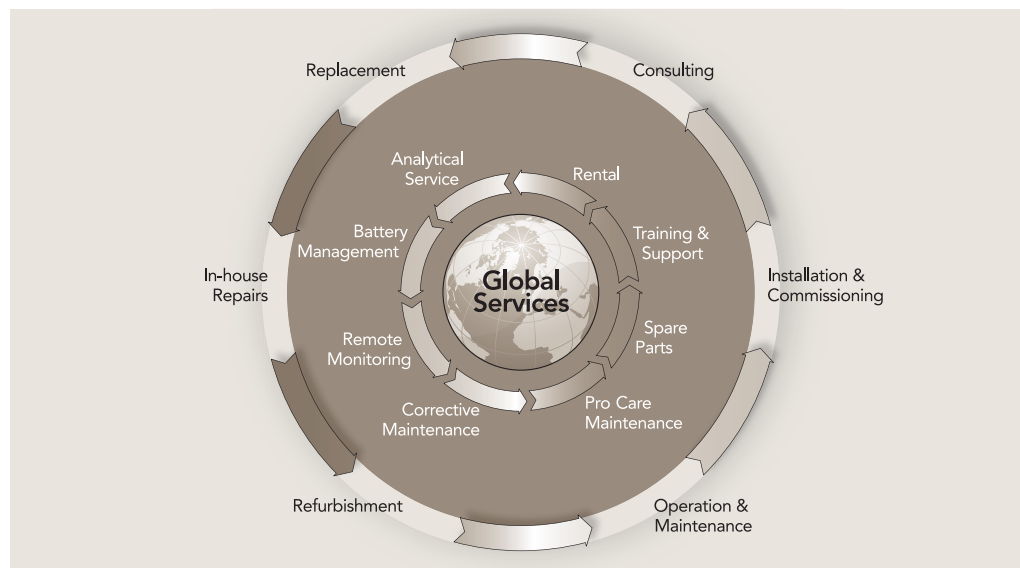
## PROTECT 8.33

SPECIFICATION  
THREE PHASE OUTPUT  
384 VDC



| MODEL   | P8.33-10   | P8.33-20                | P8.33-30            | P8.33-40            | P8.33-60 | P8.33-80 | P8.33-100 | P8.33-120 |
|---|--|-------------------------|---------------------|---------------------|----------|----------|-----------|-----------|
| Nominal rating (at cos φ 0.8 lag) in kVA                    | 10   | 20                      | 30                  | 40                  | 60       | 80       | 100       | 120       |
| RECTIFIER UNIT  |  |                         |                     |                     |          |          |           |           |
| Input nominal voltage                                       | 3 x 400 V (3 x 380 V, 3 x 415 V)   |                         |                     |                     |          |          |           |           |
| Input operating range (min. / max.)                         | 340 V – 460 V  |                         |                     |                     |          |          |           |           |
| Frequency   | 50 / 60 Hz ±10 %   |                         |                     |                     |          |          |           |           |
| Input current in A at nominal load                          | 17   | 33                      | 50                  | 66                  | 98       | 130      | 163       | 195       |
| Charging characteristic to IEC 478-10                       | IU   |                         |                     |                     |          |          |           |           |
| Nominal DC voltage  | 384 V  |                         |                     |                     |          |          |           |           |
| Rectifier type<br>- Standard<br>- Optional 12 pulse         | 6 pulse<br>Mains filter  | 6 pulse<br>Mains filter | 6 pulse<br>12 pulse | 6 pulse<br>12 pulse | 12 pulse | 12 pulse | 12 pulse  | 12 pulse  |
| INVERTER UNIT   |  |                         |                     |                     |          |          |           |           |
| DC input  | 384 V ±20 %  |                         |                     |                     |          |          |           |           |
| Nominal AC voltage  | 3 x 400 V (3 x 380 V, 3 x 415 V)   |                         |                     |                     |          |          |           |           |
| Output voltage static response                              | < ±1 %   |                         |                     |                     |          |          |           |           |
| Output voltage dynamic response                             | < ±2 %   |                         |                     |                     |          |          |           |           |
| Recovery time   | 1 ms   |                         |                     |                     |          |          |           |           |
| Frequency   | 50 / 60 Hz   |                         |                     |                     |          |          |           |           |
| Frequency tolerance without mains                           | ±0.1 %   |                         |                     |                     |          |          |           |           |
| Frequency synchronization range                             | ±1 % (±2 %, ±3 %)  |                         |                     |                     |          |          |           |           |
| Power factor range  | capacitive to inductive over entire cos φ-range                                  |                         |                     |                     |          |          |           |           |
| Unbalanced-load response                                    | at 100 % unbalanced load: voltage deviation <2 %; angle deviation <2 degrees el. |                         |                     |                     |          |          |           |           |
| Output phase current in A                                   | 14   | 29                      | 43                  | 58                  | 87       | 116      | 145       | 173       |
| Voltage wave form   | sinusoidal   |                         |                     |                     |          |          |           |           |
| Voltage distortion  | ≤3 %   |                         |                     |                     |          |          |           |           |
| Crest factor  | max. 3   |                         |                     |                     |          |          |           |           |
| Overload response 1 min.                                    | 150 %  |                         |                     |                     |          |          |           |           |
| Overload response 10 min.                                   | 125 %  |                         |                     |                     |          |          |           |           |
| Short circuit response                                      | short circuit proof, short circuit current 2.7 x I <sub>nom</sub>                |                         |                     |                     |          |          |           |           |
| STATIC BYPASS SWITCH  |  |                         |                     |                     |          |          |           |           |
| AC voltage  | 400 V (380 V, 415 V)   |                         |                     |                     |          |          |           |           |
| Frequency   | 50 / 60 Hz   |                         |                     |                     |          |          |           |           |
| Nominal power in kVA  | 10   | 20                      | 30                  | 40                  | 60       | 80       | 100       | 120       |
| GENERAL DATA  |  |                         |                     |                     |          |          |           |           |
| Efficiency (AC to AC) – typical                             | up to 94 %   |                         |                     |                     |          |          |           |           |
| Noise level depending on rating                             | <55 – 70 dB (A)  |                         |                     |                     |          |          |           |           |
| EMC compatibility   | EN 62040-2   |                         |                     |                     |          |          |           |           |
| Air cooling with redundant and monitored fans               | Yes  |                         |                     |                     |          |          |           |           |
| Operating temperature range min. / max. (without de-rating) | –5 °C / +40 °C   |                         |                     |                     |          |          |           |           |
| Storage temperature range min. / max.                       | –30 °C / +75 °C  |                         |                     |                     |          |          |           |           |
| Maximum altitude without de-rating                          | 1000 m   |                         |                     |                     |          |          |           |           |
| Protection degree IEC 529/EN 60529 standard system          | IP20 / optional IP21, IP32, IP43   |                         |                     |                     |          |          |           |           |
| Equipment color   | RAL 7035 (other colors on request)   |                         |                     |                     |          |          |           |           |
| WEIGHTS AND DIMENSIONS                                      |  |                         |                     |                     |          |          |           |           |
| Height standard UPS (mm)                                    | 1810   | 1810                    | 1810                | 1810                | 1810     | 1810     | 1810      | 1810      |
| Height with max. options (mm)                               | 1915   | 1915                    | 1915                | 1915                | 2015     | 2015     | 2015      | 2015      |
| Width (mm)  | 600  | 600                     | 900                 | 900                 | 1200     | 1200     | 1200      | 1200      |
| Depth (mm)  | 860  | 860                     | 860                 | 860                 | 860      | 860      | 860       | 860       |
| Weight (kg) ~   | 350  | 370                     | 450                 | 470                 | 550      | 800      | 900       | 900       |

## YOUR POWER SERVICE PARTNER



### Rely on the experts to reduce failure costs and increase system availability

Global network of 20 Service Centers supported by over 150 field engineers and more than 100 certified service partners around the world. From power solution selection to process installation and commissioning, our certified experts exceed your expectations. Their excellent service helps you achieve the lowest operating cost for your mission-critical power solution.

A Global Service Team renowned for its short response times and trouble shooting efficiency ensures the reliability of your installed power solution.

### Pro Care™ Start Commissioning

Ramp-up by the most experienced service experts and benefit from the manufacturer warranty. Commissioned in compliance with the latest local and international electronic norms, your system is carefully checked and optimized to meet specific on-site power needs, full operating training and hands-on advice.

### Pro Care™ Preventive Maintenance

It is well known that scheduled, recurring preventive maintenance performed by accredited service experts is the most cost effective way to secure the full performance of your Protect Power Solution at all times ensuring complete cost control, security and uninterrupted power supply for your most critical processes.

### Pro Care™ Safe

Annual scheduled on-site preventive maintenance program, to secure your system operations at all times. Over 50 functionality assessments and on-site numerical diagnostics to keep your system operating at peak performance.

### Pro Care™ Excel

Replacement and on-site installation of all defective parts at no additional cost (in addition to Pro Care™ Safe).

### Pro Care™ Premium

Long-term peace of mind at a set price. Our service engineering team performs annual maintenance of your system and replaces all necessary parts and battery units at no additional cost.



### 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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