

# Gutor PXP AC UPS System

PXP 1000 5 – 160 kVA single phase

PXP 3000 5 – 160 kVA three phase



- > Low-input harmonics
- > Increased efficiency
- > Reduced footprint
- > Flexible design
- > World-class reliability

# The Schneider Electric solution approach



# Key features and application areas

## Reliability

- > Large installed base - many years of proven field reliability
- > Decentralized control architecture for increased reliability
- > Redundant and individually monitored fans

## Footprint

- > Smallest footprint on the market among industrial UPS
- > Suitable for applications with limited available space

## Low THDi

- > Power factor correction (PFC) rectifier dramatically reduces input harmonics (<5 % total harmonic distortion input (THDi)), minimizing distortion to upstream equipment

## Industrial design

- > Robust mechanical design (vertical- and horizontal-acceleration stress up to 0.5 g)
- > Electrically and physically integrated galvanic isolation (input and output) as standard
- > Designed to withstand harsh environmental conditions (temperature, altitude, humidity, electromagnetic compatibility)

## Transformerless option

- > Optional transformerless configuration available
- > Reduction in footprint, weight, and cost
- > Increased efficiency with equivalent performance

## Interface and communication

- > Freely programmable alarms and meters
- > Communication via modbus, TCP/IP, IEC 61850, RS485
- > Web interface for remote monitoring

## Energy efficiency

- > Up to 94 percent efficient due to state-of-the-art semiconductor technology (insulated gate bipolar transistor)
- > PFC rectifier eliminates oversizing of diesel generator



## Application Areas

- > Oil & Gas
- > Energy & Power-Generation
- > Mining
- > Water Treatment & Desalination
- > Transport
- > Chemical Industry
- > Industrial Process Control
- > All Industrial Applications

# Technical information

## Technical Specifications: General Data

| Type                     | Gutor PXP 1000 single phase                                  | Gutor PXP 3000 three phase        |
|--------------------------|--|-----------------------------------|
| Ratings                  | 5, 10, 15, 20, 30, 40, 50, 60, 80, 100, 120, 140, 160 kVA    |                                   |
| Operating temperature    | -10 to +40 °C (max. 55 °C on request)                        |                                   |
| Allowable air humidity   | <95 % (non condensing)                                       |                                   |
| Noise level              | 55 – 65 dBA (depending on rating)                            |                                   |
| Communication            | modbus, RS-232/485, Ethernet, Profibus®, IEC® 61850          |                                   |
| Altitude above sea level | < 1,000m without load de-rating                              |                                   |
| <b>Input</b>             |  |                                   |
| Rectifier                | PFC technology (less than 5 % distortion back to line power) |                                   |
| Voltage                  | 3x380/400/ 415 V (other voltages on request)                 |                                   |
| Voltage tolerance        | -10/+15 %  |                                   |
| <b>Battery circuit</b>   |  |                                   |
| Nominal voltage          | 400 VDC  |                                   |
| Applicable batteries     | Lead Acid, Nickel Cadmium                                    |                                   |
| <b>Output</b>            |  |                                   |
| Voltage                  | 220/230/240 V (others on request)                            | 380/400/415 V (others on request) |
| Tolerance (static)       | +/- 1 %  |                                   |
| Frequency accuracy       | <0.01 %  |                                   |
| Efficiency               | Up to 94 % (depending on configuration)                      |                                   |
| Distortion               | linear load: <2 % / non-linear load: <5 %                    |                                   |
| Overload inverter        | 230 % / 60 ms, 150 % / 1 min., 125 % / 10 min.               |                                   |
| Overload bypass          | 1,000 % / 100 ms, 150 % / 1 min., 125 % / 10 min.            |                                   |

## Standards

|             |   |
|-------------|---|
| ISO 9001    | Quality system  |
| IEC 62040-1 | Uninterruptible Power Supply (UPS) general and safety requirements            |
| IEC 62040-2 | Uninterruptible Power Supply (UPS) EMC requirements                           |
| IEC 62040-3 | Uninterruptible Power Supply (UPS) method of specifying performance and tests |
| IEC 60529   | Degrees of protection provided by enclosures (IP Code)                        |
| IEC 60629   | Low-voltage fuses   |
| IEC 60079   | Power transformers  |
| IEC 60950   | Safety of information technology equipment                                    |
| IEC 60439   | Low-voltage switch gear and control gear assemblies                           |

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