



Fuel Cells · Power Systems

**Proton Motor**  
Fuel Cell Stacks and Systems

Cleantech Competence



DATA SHEET

Stationary

## One Phase Tower/Rack UPS

**PII Series** 1 – 10 kVA

**PII RT Series** 6/10 kVA

**PX9 II Series** 1.5/3 kVA

UPS with true  
double-conversion technology



PX9 II Series



a Proton Motor Brand

### Typical application areas

Secure Power supply for workstations, servers, small networks, telecom applications and other sensitive electronic devices.

## PII Series

Tower UPS with true double-conversion technology

1-10 kVA

### Main Features

- True double-conversion
- 6/10 k Tower Version N+X parallel redundancy
- Wide input voltage range (110-300 VAC)
- Input power factor correction 0.99
- Output Power Factor 0.8 / 0.9
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- Eco mode operation for energy saving (ECO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- Smart battery charger design for optimized battery performance
- Selectable output voltage: 208-240VAC, 110-127VAC
- Accessory: External maintenance bypass switch & SNMP card



## PII RT Series

Rack/Tower UPS with true double-conversion technology

6/10 kVA

### Main Features

- True double-conversion
- Microprocessor control optimizes reliability
- Output power factor 1
- Input power factor correction
- Wide input voltage (110V-300V)
- 50/60Hz Frequency converter mode
- ECO mode for energy saving
- Emergency power off (EPO) function
- Low input THDi to reduce power system pollution
- Smart battery charger design to optimize battery performance
- Generator compatible
- Optional external SNMP slot

## PX9 II Series

Rack/Tower UPS with true double-conversion technology

1.5/3 kVA

### Main Features

- Output Power Factor 0.9
- As Tower- or as 19"-Rack-Mount
- Hot-swappable battery design
- True double-conversion
- User-friendly and easy-shift LCD design (vertically and horizontally)
- AC efficiency  $\geq 90\%$
- Input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- ECO and advanced ECO mode for energy saving
- Remaining backup time display
- Smart battery charger design for optimized battery performance
- Programmable power management outlets



# One Phase Tower/Rack UPS

Further Features	PII Series	PII RT Series	PX9 II Series
<b>Available Versions – Rated Power in kVA</b>	1 / 2 / 3 / 6 / 10 kVA	6 / 10 kVA	1.5 / 3 kVA
<b>Parallel Function to maximize reliability</b>	Available for 6 and 10 kVA with N+X redundancy	Available	Not available
<b>Operation Modes</b>	<ul style="list-style-type: none"> <li>• Online mode</li> <li>• ECO mode</li> <li>• Frequency Converter mode</li> <li>• Battery mode</li> <li>• Bypass mode</li> <li>• Standby mode</li> </ul>	<ul style="list-style-type: none"> <li>• Online mode</li> <li>• ECO mode</li> <li>• Frequency Converter mode</li> <li>• Battery mode</li> <li>• Bypass mode</li> <li>• Standby mode</li> </ul>	<ul style="list-style-type: none"> <li>• Online mode</li> <li>• ECO mode</li> <li>• Advanced ECO mode</li> <li>• Frequency Converter mode</li> <li>• Battery mode</li> <li>• Bypass mode</li> <li>• Standby mode</li> </ul>
<b>Control and Protection Systems</b>	<ul style="list-style-type: none"> <li>• Battery discharge protection</li> <li>• automatic battery self test</li> <li>• audible alarm</li> <li>• EPO function</li> </ul>	<ul style="list-style-type: none"> <li>• Battery discharge protection</li> <li>• automatic battery self test</li> <li>• audible alarm</li> <li>• EPO function</li> </ul>	<ul style="list-style-type: none"> <li>• Battery discharge protection</li> <li>• automatic battery self test</li> <li>• audible alarm</li> <li>• EPO function</li> </ul>
<b>Communication Ports</b>	<ul style="list-style-type: none"> <li>• Smart RS-232 / USB</li> <li>• Optional: SNMP</li> </ul>	<ul style="list-style-type: none"> <li>• Smart RS-232 / USB</li> <li>• Optional: SNMP</li> </ul>	<ul style="list-style-type: none"> <li>• Smart RS-232 / USB</li> <li>• Optional: SNMP</li> </ul>
<b>Applicable Battery Types</b>	12V/7Ah or 12V/9Ah for standard model	12V / 9 Ah	12V / 9 Ah
<b>Efficiency</b>	AC mode: Up to 91 % ECO mode: 97 % Battery mode: Up to 90 %	AC mode: 94 % ECO mode: 98.5 % Battery mode: 92 %	AC mode: Up to 91 % ECO mode: 97 % Battery mode: Up to 90 %
<b>Output Power Factor</b>	0.9	1	0.9
<b>Harmonic Distortion THD</b>	≤ 2% (Linear Load) ≤ 4% (Non-linear Load)	≤ 1% (Linear Load) ≤ 4% (Non-linear Load)	≤ 2% (Linear load) ≤ 4% (Non-linear load)
<b>Crest Ratio</b>	3:1	3:1 max.	3:1 max.
<b>Input Power Factor</b>	≥ 0.99 at 100% Load	≥ 0.99 at 100% Load	≥ 0.99 @normal voltage

Errors excepted, technical changes reserved. Product specifications are subject to change without further notification

For further information, please do not hesitate to contact us.

**Proton Motor Fuel Cell GmbH**  
Benzstraße 7  
D-82178 Puchheim  
Germany

Phone +49 (0) 89 1276265 - 11  
Fax +49 (0) 89 1276265 - 99  
email [sales@proton-motor.de](mailto:sales@proton-motor.de)  
Web [www.proton-motor.de](http://www.proton-motor.de)

Stationary

Automotive

Maritime