



Fuel Cells · Power Systems

**Proton Motor**  
Fuel Cell Stacks and Systems

Cleantech Competence



DATA SHEET

Stationary

## Three Phase Standalone UPS

**G Series** 10-200 kVA

**GS Series** 10-120 kVA

Transformer less,  
double-conversion technology

Compact solutions to guarantee  
utility stability for medium and  
high sized applications.



a Proton Motor Brand

### Typical application areas

Secure power for data centers, Networks, servers, communication facilities, security systems, medical equipment and other mission-critical applications

# Three Phase Tower UPS

	G Series	GS Series
<b>Main Features</b>	<ul style="list-style-type: none"> <li>• Double-conversion online technology</li> <li>• VFI-SS-111 classification</li> <li>• 3 phase to 3 phase</li> <li>• Rectifier and inverter with full IGBT and transformer less technology with high switching frequency</li> <li>• Control by digital signal processor (DSP)</li> </ul>	<ul style="list-style-type: none"> <li>• Double conversion online technology</li> <li>• VFI-SS-111 classification</li> <li>• 3 phase to 3 phase</li> <li>• Three level IGBT inverter with pulse width modulation (PWM) and high switching frequency</li> <li>• Control by digital signal processor (DSP)</li> </ul>
<b>Available Versions – Rated Power in kVA</b>	10 / 15 / 20 / 30 / 40 / 60 / 80 / 100 / 125 / 160 / 200	10 / 20 / 30 / 60 / 90 / 120
<b>Parallel Functions</b>	Up to 6 units in parallel	Up to 6 units in parallel
<b>Operation Modes</b>	<ul style="list-style-type: none"> <li>• Online mode</li> <li>• ECO mode</li> <li>• Battery and Bypass mode</li> <li>• Smart standby mode</li> <li>• Frequency converter</li> </ul>	<ul style="list-style-type: none"> <li>• Online mode</li> <li>• ECO mode</li> <li>• Battery and Bypass mode</li> </ul>
<b>Control and Protection Systems</b>	<ul style="list-style-type: none"> <li>• Remote Emergency Power Off</li> <li>• Temperature Voltage compensation</li> <li>• Deep discharge control</li> <li>• Automatic and manual battery tests</li> </ul>	<ul style="list-style-type: none"> <li>• Remote Emergency Power Off</li> <li>• Charging temperature compensation.</li> <li>• Temperature Voltage compensation</li> <li>• Automatic and manual battery tests</li> <li>• Breaker for internal battery disconnection</li> </ul>
<b>Communication Ports</b>	USB / RS232 / SNMP Agent / MODBUS / PROFIBUS / Relay	Until 30 kVA: <ul style="list-style-type: none"> <li>• Standard: RS232, RS485.</li> <li>• Option: Dry Contact; SNMP, AS/400</li> </ul> From 60 kVA: <ul style="list-style-type: none"> <li>• Standard: RS232, RS485, USB, Dry Contact;</li> <li>• Option: SNMP, AS/400</li> </ul>
<b>Applicable Battery Types</b>	VRLA / AGM / Ni-Cd / Gel	VRLA / AGM / Ni-Cd / Gel
<b>Efficiency</b>	<ul style="list-style-type: none"> <li>• Online mode: 96.5 %</li> <li>• ECO mode: 99 %</li> </ul>	<ul style="list-style-type: none"> <li>• Normal mode: &gt; 95 %</li> <li>• ECO mode: &gt; 95 %</li> </ul>
<b>Output Power Factor</b>	<ul style="list-style-type: none"> <li>• 0.9 (10 – 125 kVA)</li> <li>• 1 (160 und 200 kVA)</li> </ul>	<ul style="list-style-type: none"> <li>• 0.9</li> </ul>
<b>Crest Ratio</b>	3:1	• 3:1
<b>Input Power Factor</b>	> 0.99	• > 0.99
<b>Input Current THDI</b>	<ul style="list-style-type: none"> <li>&lt; 3 % (10 – 40kVA)</li> <li>&lt; 2.5 % (60-200 kVA)</li> </ul>	• < 3 %
<b>Special Benefit</b>	<ul style="list-style-type: none"> <li>• Cold start</li> <li>• Soft start</li> <li>• Power Share</li> <li>• Double Input</li> </ul>	<ul style="list-style-type: none"> <li>• Simplified maintenance due to modular concept</li> <li>• Cold start (Option)</li> <li>• Double input</li> <li>• Cost benefits</li> </ul>

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

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

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