

PowerGem™ Xtreme Series

Single Phase Input & Output True Online Double Conversion UPS

750VA – 3kVA

» Economical » Practical » User Friendly

VFI



The PowerGem Xtreme range is a practical, modern, LED design with emphasis on providing a reliable stable power performance for any IT Manager who needs a more economical solution.

The PowerGem Xtreme uses double conversion digital technology that communicates through the RS232 port. When the mains fail, the load is powered from a pure sine wave online inverter, with sufficient autonomy for the PowerView software provided to safely shutdown the client's computer system.

Easy to install with straight forward logical operation that is ideal for the client wanting a more cost effective solution.

- » SoHo
- » Servers
- » Healthcare
- » Industrial
- » Telecommunications

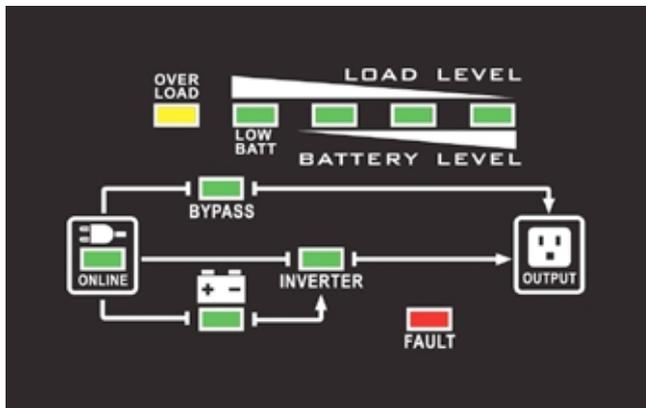
PowerGem Xtreme Features

WIDE INPUT VOLTAGE

Part of the unique design of the PowerGem Xtreme is to improve the performance in adverse site conditions with a wide input voltage window ranging from 110 volts up to 300 volts without the need for the system to transfer into battery mode. Thus not only improving the efficiency of the system but also maximising the life of the battery.

EASY AND SIMPLE FUNCTIONS

The PowerGem Xtreme has a multi-functional LED display to give clear indication of status and modes of operation with both visual and audible fault analysis.



ENVIRONMENTALLY FRIENDLY ENERGY SAVING

The intelligent microprocessor based control system allows for the very low power consumption offered by the interactive ECO Mode of operation which provides efficiencies as high as 98%. The PowerGem Xtreme switches instantaneously to online double conversion operation automatically when the mains becomes unstable and fluctuates outside the normal frequency and voltage parameters.

LOW NOISE LEVEL

It is anticipated that the PowerGem Xtreme will most often be installed in an office workspace and the environment will be an important factor in the design. Therefore, by using modern high frequency technology the noise produced is reduced to less than 50dBA.

- **Wide input (110V – 300V)**
- **True online double conversion**
- **Digital Signal Processor (DSP) technology**
- **Practical multi-functional LED display**
- **True sinewave output**
- **Frequency Converter Mode**
- **RS232 communication port**
- **ECO Mode operation for energy saving**
- **Matching battery cabinets**
- **Generator compatible**

MATCHING BATTERY CABINETS

For mission critical applications requiring longer runtime of higher specification batteries, additional matching battery cabinets can be added. These have been designed both technically and aesthetically to complement the UPS, forming a combined unit which can be easily located without need for special site considerations.



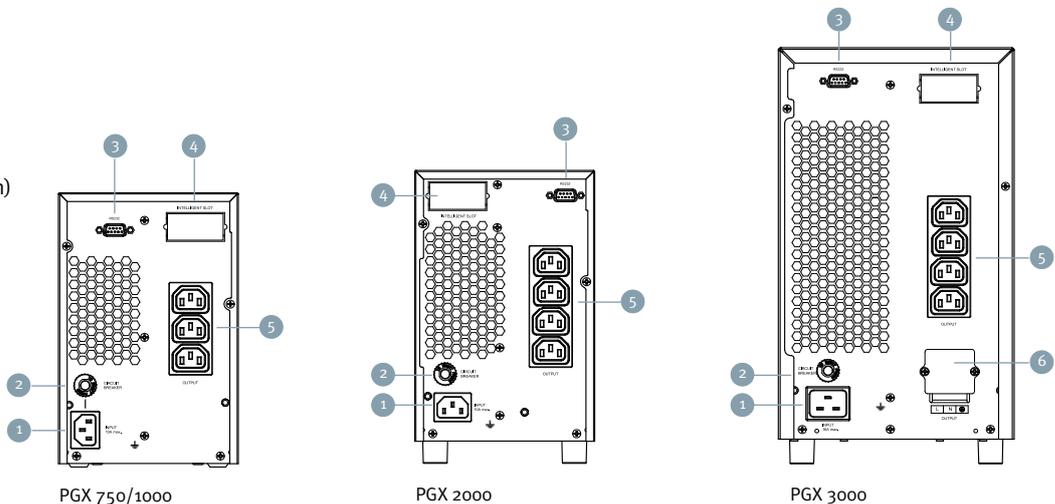
PowerGem Xtreme – Online Double Conversion UPS

Technical Specification



MODEL	PGX 750	PGX 1000	PGX 2000	PGX 3000
Power Rating VA / Watts	750 / 500	1000 / 800	2000 / 1600	3000 / 2400
INPUT				
Nominal Voltage	220 / 230 / 240 Vac	200 / 208 / 220 / 230 / 240 Vac		
Voltage Range	120 - 280 Vac $\pm 5\%$ (50% load) 184 - 280 Vac $\pm 5\%$ (100% load)	110 - 300 Vac (50% load) 160 - 280 Vac (100% load)		
Frequency Range	50 / 60 Hz (auto sensing)	40 - 70 Hz		
Power Factor	≥ 0.95 @ nominal voltage	≥ 0.99 @ 100% Load		
OUTPUT				
Nominal Voltage	220 / 230 / 240 Vac	200 / 208 / 220 / 230 / 240 Vac		
AC Voltage Regulation (BatteryMode)	$\pm 1\%$			
Frequency Range (Synchronised Range)	47 - 53 Hz or 57 - 63 Hz			
Frequency Range (Battery Mode)	50 Hz or 60 Hz ± 0.1 Hz	50 Hz ± 0.25 Hz or 60 Hz ± 0.3 Hz		
Crest Factor	3:1			
Harmonic Distortion (Linear Mode)	$\leq 3\%$ THD			
Transfer Time (AC to Battery)	Zero			
Waveform	Pure Sinewave			
EFFICIENCY				
AC Mode	90%	88%	88%	90%
Battery Mode	80%	83%	85%	88%
BATTERY				
Battery Type	VRLA AGM Sealed Lead Acid Maintenance Free Batteries			
Battery Numbers	1 x Internal	2 x Internal	4 x Internal	6 x Internal
Typical Recharge Time	4 hours recover to 90% capacity			
Charging Current (max.)	1A			
GENERAL				
Operating Humidity	20 - 90% RH @ 0 - 40°C (non-condensing)			
Acoustic Noise Level	≤ 50 dB @ 1 metre			
Management Software	Included			
Dimensions (mm) WxDxH	100 x 300 x 145	145 x 282 x 220	145 x 397 x 220	190 x 421 x 318
Net Weight (kgs)	5	9.8	17	27.6

- 1 AC input
- 2 Input circuit breaker
- 3 RS-232 communication port
- 4 SNMP intelligent slot (option)
- 5 Output receptacles
- 6 Output terminal



Accessories

Suitable for the Single Phase UPS Ranges

PowerGem Xtreme / PowerGem+ / PowerOn / PowerGem Pro

SIMPLE NETWORK MANAGEMENT PROTOCOL (SNMP) MODULES

SNMP cards are used for the management of UPS systems via a computer or local network. With a web based programme built into the SNMP, simply connecting the card to a network via its LAN port allows for easy monitoring of the UPS. SNMP cards can be used not only to monitor UPS parameters, but also allow user controlled testing, email alerts and sending of remote console commands to client systems to initiate automatic shutdowns. SNMP cards can be fitted internally on some UPS models or externally fitted via the UPS RS232 port.



RELAY CARDS

Relay communication cards provide contact closures for the remote monitoring of the UPS system. The dry-port interface card provides a selection of dry-contact relays. The dry-contact signals monitor select parameters of the UPS such as, UPS failure, bypass active, low battery, UPS on and utility failure. The dry-ports will then change their status depending on this alarm.



RAIL KITS

Rail kits are available for all rackmount UPS, a simple kit to ease installation into 19" cabinets and will allow the UPS to be supported without the requirement of a shelf.



EXTERNAL RACKMOUNT MAINTENANCE BYPASS SWITCHES

Suitable for 1kVA – 3kVA models

- Provides continuous power to connected equipment during UPS maintenance
- Easy operation with simple rotary switch and indications
- Adjustable master-slave function
- Large number of sockets for extended usage
- Rack and tower designs to fit into a diverse working environment
- Simple plug-and-play connectivity
- Diverse socket selections: IEC, UK, Schuko and NEMA



Suitable for PowerGem Pro 6kVA & 10kVA models

- Easy operation with simple rotary switch and indications
- 100% make-before-break to provide continuous power to connected equipment during UPS maintenance
- Automatic UPS protection design – auto transfer UPS to bypass when opening the maintenance bypass switch panel
- Easy operation with simple rotary switch
- Terminal block type



Advanced Power Conversion Solutions

The BPC Group

BPC is an international company operating for 20 years globally, with partners and distributors located around the world.

These regions include:

EUROPE

UK, France, Germany, Gibraltar, Ireland, Netherlands, Malta, Norway, Portugal.

MIDDLE EAST

Bahrain, Jordan, Kuwait, KSA, Lebanon, Oman, Qatar, UAE, Yemen.

AFRICA

Burkina Faso, Democratic Republic of the Congo, Egypt, Ethiopia, Kenya, Ghana, Libya, Nigeria, Rwanda, Sierra Leone, Sudan, Tanzania, Uganda, Zambia.

FAR EAST & ASIA

India, Pakistan, Sri Lanka.

To ensure a high level of pre and post-sales support is offered, BPC work closely with distributors, providing key commercial and technical training whilst providing competitive costing structures tailored to specific region markets, ensuring the most suitable BPC products are offered. We pride ourselves on long standing relationships with our partners which is reflected in the ongoing support provided locally.



The British Power Conversion Company

Authorised Distributor