

PowerPro™ Micro Series

Three Phase Input & Output Online Double Conversion UPS
5kVA – 30kVA (Parallelable up to 120kVA)

VFI

» Compact

» Parallelable

» Versatile



In today's very competitive server room/small data centre market, BPC recognises the requirement for a compact and versatile UPS system dedicated to the protection of critical computer applications.

The BPC PowerPro Micro range is a three phase input & output compact UPS, designed as a competitive system for computer applications. Built using state-of-the-art technology with DSP (Digital Signal Processor) microprocessor control to provide maximum reliability to the load with no impact downstream, the PowerPro Micro UPS is a scalable solution providing up to 120kVA system or 90kVA N+1 of power protection.

» **Server Rooms**

» **IT Solutions**

» **Small Datacentres**

» **Telecommunications**

PowerPro Micro Features

COMPACT DESIGN

The PowerPro Micro system offers one of the smallest footprints available on the market, providing an exceptional power density of 130kW/m² at 30kVA capacity in one cabinet, for the ever space conscious IT manager.

PARALLEL READY

The BPC philosophy is both simple and elegant. The UPS is connected directly to the user's distribution system, eliminating the vulnerable centralised static switch and control circuits.

Models can be used in simple parallel operation with up to 4 units, allowing scalability for increased power capacity and improved reliability due to the redundancy operation.



ENVIRONMENTALLY FRIENDLY

The PowerPro Micro UPS has a lesser environmental impact than other systems and supports installations where the power is limited. With an input power factor virtually unity and current distortion up to 2.5%, the UPS has zero impact on the power, whether this is the mains supply or the generator.

Furthermore, the system can be operated in ECO Mode for further energy saving efficiency up to 99%, possibly making this the greenest UPS design available.

OPERATIONAL AVAILABILITY

The PowerPro Micro UPS is designed to operate within a wide input voltage range, up to 50% at half load while still stabilising the output voltage without consuming any battery energy.

Derating the system is also possible to operate at a higher temperature (maximum 50°C) and increased altitude up to 5000 metres.

- Digital Signal Processor (DSP) technology
- Wide input voltage and frequency windows
- Internal Maintenance Bypass Switch
- High input power factor and low input distortion
- Output power factor 0.9
- ECO Mode option
- Separate or common battery
- Programmable battery voltage
- Internal battery
- 3 level intelligent charger
- Powerful charger up to 10A
- Superior overload capability
- Programmable control and monitoring software via USB & RS232 port
- 2x network card slots
- Modbus RS485 communication
- Emergency Power Off (EPO) function
- Temperature compensation option
- Automatic battery test

ENHANCED BATTERY LIFE

Utilising an advanced 3-level intelligent charger with smart charge current adjustment, the PowerPro Micro system is designed to protect and enhance the life expectancy of the battery. Frequent battery testing will diagnose in advance any reduction in battery performance.

INSTALLATION FLEXIBILITY

All PowerPro Micro UPS house high rate 12V 9AH battery strings for backup up to 30 minutes at 5kVA internally. Additionally, matching battery cabinets can be connected easily and effectively with multiple battery strings for longer runtime requirements.

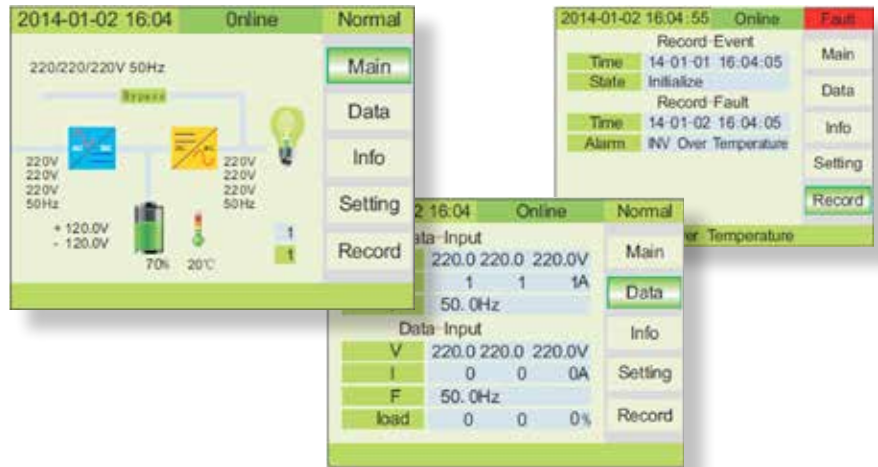
Intelligent charger characteristics allow battery string voltages to be programmed between 16 to 20 blocks to decrease initial investment or simply modify in-service batteries to enhance life expectancy.



PowerPro Micro Features

ADVANCED DISPLAY FUNCTIONS

A precise colour LCD display provides real time status and parameter readings via the DSP controller. These include AC input and output voltage, frequency, battery backup time, programmable output socket status and modes of operation.



Communication

Either:

- 1 RS485
- 2 USB
- 3 RS232

4 Dry Ports

UPS battery low
Mains power failure
Turn off UPS

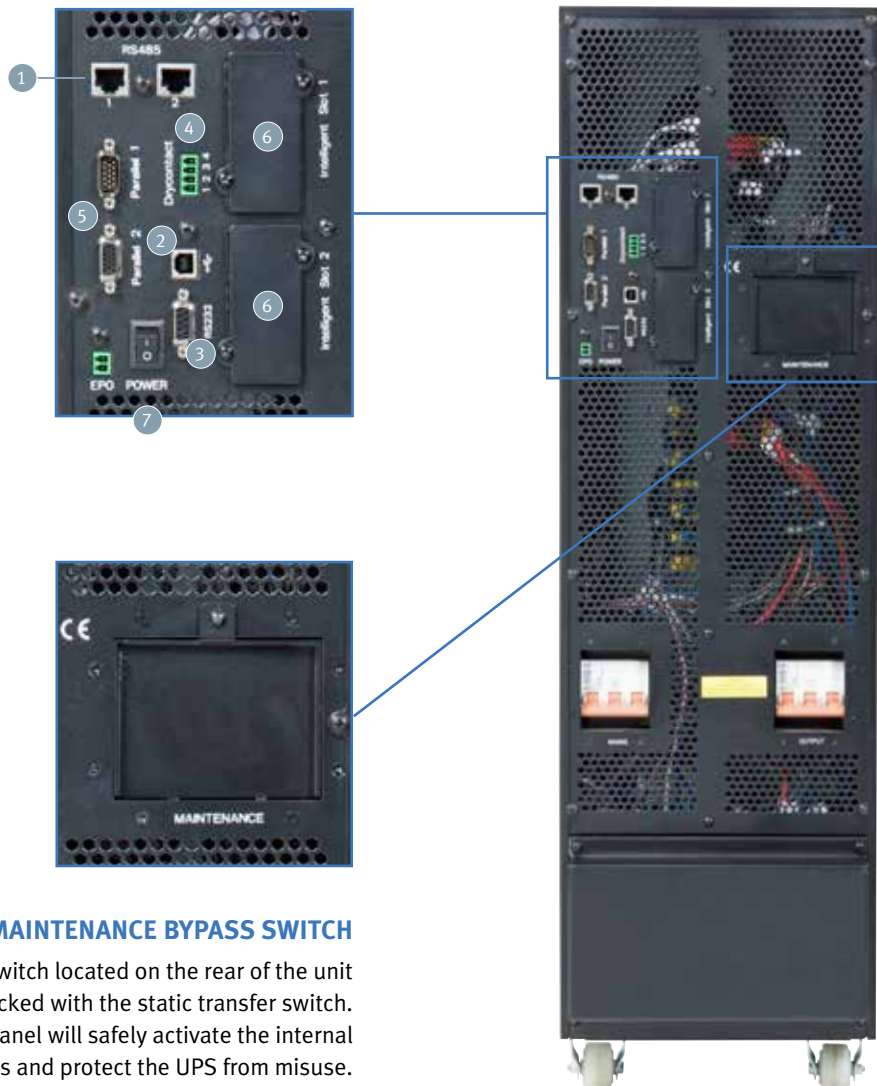
5 Parallel Slots

UPS is parallel ready from installation with 2x parallel slots

6 2x Intelligent Slots

Allowing for:
SNMP Cards
Relay Cards

7 Emergency Power Off (EPO)



MAINTENANCE BYPASS SWITCH

The maintenance bypass switch located on the rear of the unit is internally interlocked with the static transfer switch. Removal of the secure panel will safely activate the internal bypass and protect the UPS from misuse.

PowerPro Micro Technical Specification



MODEL	MICRO 305	MICRO 310	MICRO 315	MICRO 320	MICRO 330
Power Rating kVA / Watts	5 / 4.5	10 / 9	15 / 13	20 / 18	30 / 27
INPUT					
Nominal Voltage	380 / 400 / 415 Vac (3Ph + N + PE)				
Voltage Range	208 V - 478 V				
Frequency Range	45 - 55 Hz at 50 Hz / 54 - 66 Hz at 60 Hz (auto sensing)				
Power Factor	≥0.99 @ 100% load				
OUTPUT					
Nominal Voltage	380 / 400 / 415 Vac (3Ph + N + PE)				
AC Voltage Regulation (Battery Mode)	±1%				
Frequency Range (Synchronised Range)	46 - 54 Hz or 56 - 64 Hz				
Frequency Range (Battery Mode)	50 / 60 Hz ±0.1 Hz				
Power Factor	0.9				
Crest Factor	3:1				
Harmonic Distortion (Linear Mode)	≤2%				
Transfer Time	0 ms				
Waveform	Sinewave				
EFFICIENCY					
AC Mode	≥98%				
BATTERY					
Battery Type	VRLA AGM Sealed Lead Acid Maintenance Free Batteries				
Battery Numbers	20pcs (max. 40 pcs) internal				
Charging Current (max.)	10A				
GENERAL					
Operating Temperature	0° - 40°C				
Operating Humidity	0 - 95% (non-condensing)				
Acoustic Noise	≤55 dB @ 1 metre				
Protection Degree	IP20				
Management Software	Included				
Dimensions (mm) WxDxH	250 x 828 x 868				
Net Weight (kgs)	115		171		223

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