

DIGITAL UPS FOR THE DIGITAL WORLD



atlantic power group
an ATLANTIC POWER GROUP company
Mexico DF - Sao Paulo - Madrid - Istanbul - Kuwait - Hong Kong - Melbourne



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Certification: ISO 9001:2015

ODC UPS (5KVA-200KVA)

Power Availability



Ed.03 - 20180319



Reliability, Availability, Scalability, Redundancy,

User-friendliness and Maintainability,

whichever value you need,

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UPS FOR THE DIGITAL WORLD, YOUR POWER QUALITY PARTNER

Interberg ODC Series UPS Systems are on-line double conversion UPS (VFSS111 in accordance with IEC-EN-62040-3) with a transformer isolated inverter. The ODC Series UPS have a compact footprint and high quality output to provide ultimate power protection for “mission critical” applications: data processing, telecommunications, industrial processes, security and electro-medical systems. The ODC range of UPS includes 1/3-phase output models from 5 to 200 kVA. 6-pulse rectifiers/IGBT are optional for all the models.

Major Applications

- Information Technology
 - Data Centers
 - Servers (LAN, WAN, MAN, ERP, e-mail, web and others)
 - Networking
- Telecommunication
 - Mobile (2G, 2.5G, 3G)
 - Paging
 - Fixed (including WLL)
- Industrial Automation
 - Process (including instrumentation)
 - Motion (digital drives & robotics) and motor loads
- Transport Automation
 - Airport automation and flight booking
 - Others including railways & road transport automation & ticket booking
- Banking, Insurance and Financial Services
- Software Development Houses / Software Technology Parks (STP)
- Building Automation
 - Access Control
 - Security System
 - Fire Alarm System
 - Emergency Lighting
 - Other Critical Applications
- Medical Diagnostics
 - Magneto Resonant Imaging
 - CT Scanning
 - CathLab
- Satellite
 - Uplinking
 - Earth Stations





Features

The technology applied to the ODC series UPS remove the problems of oversizing upstream power sources, whilst improving load power factors and current harmonics. These UPS systems feature the latest input-current absorption techniques including progressive rectifier start-up and the option to reduce battery charging currents. These features make the ODC Series UPS one of the most environmentally friendly UPS available.

POWER CONTINUITY

We have been researching and developing UPS technologies for critical applications for years. Interberg UPS solutions are flexible, offering the highest levels of availability, whilst achieving low total cost ownership.

Interberg ODC UPS Systems are designed to be resilient, with key components inbuilt redundancy. These UPS are designed for ease of installation and maintenance, with top entry cable cabinet option and simple but secure access to connection terminals and communications interfaces.

MAXIMUM LEVELS OF RELIABILITY AND AVAILABILITY

Distributed or centralized parallel up to 8 units per back-up (N+1) or power parallel, as well as parallel between models of different power levels is possible. **Hot System Expansion (HSE)**: HSE allows the insertion of a new UPS within an existing system, without the need to switch off the UPSs which are already operating or switch them to by-pass mode. This guarantees maximum load protection, even during maintenance and enlargement.

Maximum levels of availability also in the event of an interruption to the parallel bus cable: the system is **FAULT TOLERANT**. If it is not affected by faults with the connection cables and continues to power the load without a continuity solution, signalling the anomaly with an alarm. **High Efficiency Parallel System (HEPS)**: This is the system that optimizes the efficiency of the system in parallel, according to the power required by the load at that moment. The N+1 redundancy is nevertheless guaranteed, but each UPS operating in parallel operates at the best possible load level in order to achieve the highest overall efficiency.

OPTIONS

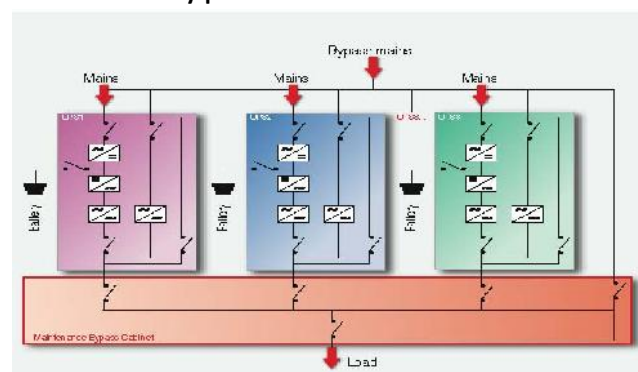
* **UPS Group Synchronizer** : allows 2 or more UPS not in parallel to remain synchronized even during a power failure.

The UGS also enables an Interberg UPS to be synchronized with an independent power source, even of a different power rating.

- **PSJ – Parallel System Joiner**

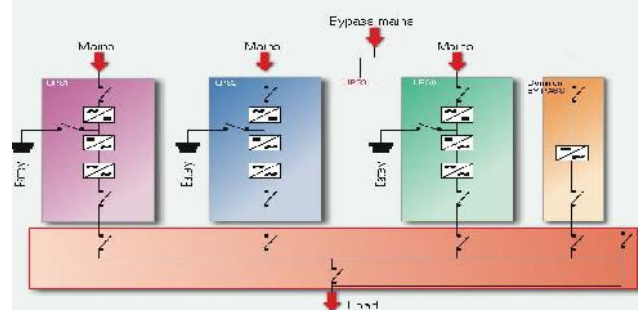
Connects two UPS groups operating in parallel configuration through a power coupling switch. The slave UPS group is

permanently synchronized to the Master group. Should one of the UPS in one of the parallel groups fail, the PSJ will automatically connect the remaining UPS to the other group via an external by-pass.



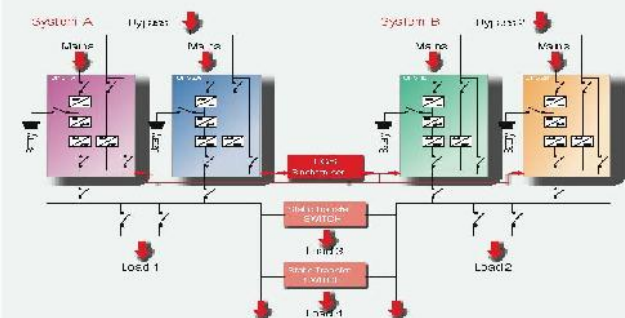
Parallel configuration of up to 8 units with distributed bypass

Parallel architecture which guarantees the redundancy of the power source. + Flexibility and modularity



Parallel configuration of up to 8 units with common bypass

Parallel architecture which guarantees the redundancy of the power source, with autonomous bypass management. + Selectivity downstream faults in bypass mode



Dynamic dual bus configuration

Solution which ensures redundancy until the distribution of the power supply to the loads + Downstream fault discrimination

FLEXIBILITY

ODC Series UPS are suitable for a wide range of applications, including IT and the most demanding industrial environments. The UPS are suitable for power capacitive loads such as blade servers, without any reduction in active power, from 0.9 leading to 0.8 lagging. Equipped with a broad range of accessories and options, complex configurations and system architectures can be achieved to guarantee maximum power availability and the option to add new UPS without interruption to existing users. Using the Interberg UPS Group Synchronizer (USG) and Parallel Systems Joiner (PSJ) sophisticated inter group parallel and redundant systems can be achieved to provide the highest possible levels of resilience and availability.

- Temperature compensation and deep discharge protection to reduce overall battery aging.
- Charge blocking system to reduce electrolyte consumption and lengthen the life of the batteries
- Predictive battery testing to spot potential battery deterioration and failure.

Interberg ODC UPS Systems are totally compatible with different battery technologies : open/vented lead-acid batteries, sealed lead-acid batteries (both AGM and Gel) as well as vented and valve regulated Nicd batteries.

EASE OF INSTALLATION

Interberg ODC UPS Systems are compact, with a small footprint. Front access to internal assemblies and top panel ventilation make space allocation within confined data processing or plant rooms easy. The ODC UPS can be placed against a wall as there is no requirement for rear or side panel access for maintenance or ventilation.

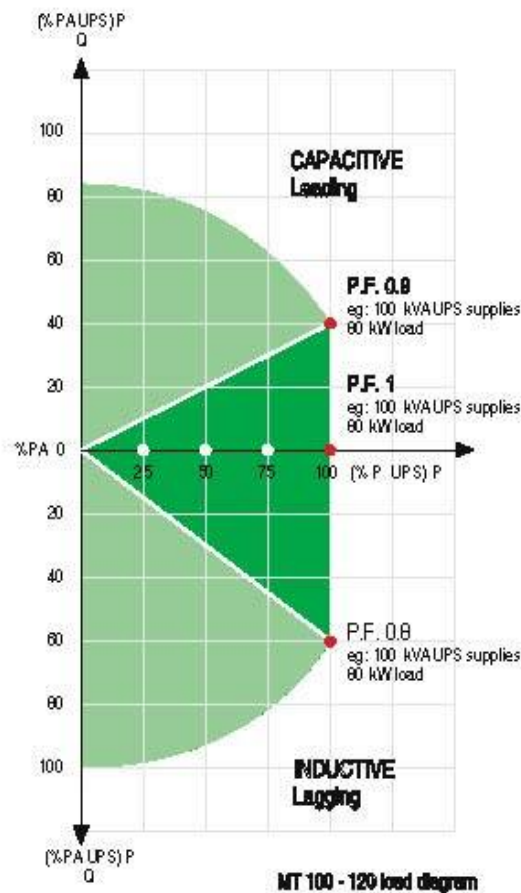
SPECIFIC SOLUTIONS

The UPS can be adapted to your requirements.

Please contact us to discuss specific applications or options.

ADVANCED COMMUNICATION

- Compatible with TeleNetGuard for remote maintenance
- Advanced, multiplatform communication for all operating systems and network environments: PowerShield monitoring and shut-down software included, for Windows 2008, Vista, 2003, XP; Mac OS X, Linux, Novell and most popular Unix operating systems. The UPS is supplied with a cable for direct connection to the PC (plug and play).
- Double RS232 serial port.
- Installation slot for an Emergency Power off (EPO) interface to allow the UPS to be switched off remotely in an emergency.
- Generator interface: enables desynchronisation of the UPS output from a generator supply which may be subject to phase and frequency variations. The interface also enables more economic use of the battery charger.



BATTERY CARE SYSTEM : MAXIMUM LIFETIME POTENTIAL

Traditionally, when a mains supply is present, the UPS charges the batteries. Battery power is used for the inverter should the input supply fail. Efficient battery management and care is therefore essential to the overall performance of the UPS in an emergency.

The Battery Care System of the Interberg ODC UPS consists of a range of features designed to provide optimum performance and enhanced operating life:

- Dual level charging regime to optimize recharge currents and lower recharge times

WE HELP YOU GET IT RIGHT - RIGHT FROM THE START.

ODC UPS (5KVA-100KVA)

Power Availability

Specifications

| Model Power(kVA) | ODC 5-100KVA 3 ph in/ 1 ph output | | | | | | | | |
|----------------------------------|--|-------------|-------------|-------|-------|--------------|-------|---------------|--|
| | 5KVA | 10KVA | 20KVA | 30KVA | 40KVA | 60KVA | 80KVA | 100KVA | |
| Capacity | 4KW | 8KW | 16KW | 24KW | 32KW | 48KW | 64KW | 80KW | |
| Input | | | | | | | | | |
| Rated voltage | 380/400/415 Vac three-phase | | | | | | | | |
| Voltage range | ± 25% | | | | | | | | |
| Frequency range | 45÷65Hz | | | | | | | | |
| Power factor | >0.92 with harmonic filter | | | | | | | | |
| Current harmonic distortion | <5% with harmonic filter | | | | | | | | |
| Soft Start | 0-100% in10" | | | | | | | | |
| Bypass Input | | | | | | | | | |
| Rated voltage | 230Vac single-phase | | | | | | | | |
| Permitted voltage range | ±15%(selectable from ±10% to ± 25% from front panel) | | | | | | | | |
| Rated frequency | 50/60Hz | | | | | | | | |
| Permitted frequency range | ± 2%(selectable from ±1% to ± 5% from front panel) | | | | | | | | |
| Standard features | BackFeed portection; split bypass line | | | | | | | | |
| Batteries Voltage | 125VDC;192VDC;216VDC;360VDC;384VDC;432VDC;480VDC optional | | | | | | | | |
| Type | Maintenance-free lead-acid VRLA AGM / GEL; NiCd | | | | | | | | |
| Maximum recharge current(A) | 0.2 X C10 | | | | | | | | |
| AC ripple voltage | <1% | | | | | | | | |
| Inverter output | | | | | | | | | |
| Rated power(kVA) | 5KVA | 10KVA | 20KVA | 30KVA | 40KVA | 60KVA | 80KVA | 100KVA | |
| Active power(kW) | 4KW | 8KW | 16KW | 24KW | 32KW | 48KW | 64KW | 80KW | |
| Number of phases | 1 | | | | | | | | |
| Rated voltage(V) | 220/230/240 Vac single-phase | | | | | | | | |
| Regulation of the output voltage | 220÷244Vac phase/neutral(from control panel) | | | | | | | | |
| Crest factor(Ipeak/Irms) | 3:1 | | | | | | | | |
| Static stability | ±1% | | | | | | | | |
| Dynamic stability | ±5% | | | | | | | | |
| Frequency | 50/60Hz configurable | | | | | | | | |
| Overload | 110% 125% 150% of the rated current for 5h/10'/1' | | | | | | | | |
| Frequency stability | ±0.05% on mains failure | | | | | | | | |
| System | 5KVA | 10KVA | 20KVA | 30KVA | 40KVA | 60KVA | 80KVA | 100KVA | |
| Remote signaling | Volt free contacts | | | | | | | | |
| Remote controls | EPO and Bypass | | | | | | | | |
| Communication | RS232 + remote contacts | | | | | | | | |
| Operation temperature | 0°C / + 40°C | | | | | | | | |
| Relative humidity | <95% non condensing | | | | | | | | |
| Colour | Light grey (RAL 7035) | | | | | | | | |
| Noise | 54dBA at 1m | 60dBA at 1m | 65dBA at 1m | | | | | | |
| Protection degree | IP20 | | | | | | | | |
| Efficiency Smart Mode | up to 98% | | | | | | | | |
| Compliance | Safety:EN 62040-1-1(Directive 2006/95/EC); EMC:6200-2(Directive 2004/108/EC) | | | | | | | | |
| Weight (KG) N.W | 200 | 220 | 230 | 290 | 340 | 440 | 520 | 770 | |
| Dimensions : (Wx D x H)mm | 555X720X1200 | | | | | 800X740X1400 | | 1070X740X1400 | |
| Internal batteries | Yes | Yes | Yes | No | No | No | No | No | |

STANDARD: Conform to GB/IEC regulation: EMC:GB7260.2/IEC62040-2 GB/17626.2~5/IEC61000-4-2~5 SAFETY:GB4943

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WE HELP YOU GET IT RIGHT - RIGHT FROM THE START.

ODC UPS (10KVA-200KVA)

Power Availability

Specifications

| Model | ODC 10-200KVA 3 ph in/ 3 ph output | | | | | | | | | | |
|---|---|-------|-------|-------|-------|--------------|----------------|---------------|--------|---------------|--------|
| Power(kVA) | 10KVA | 15KVA | 20KVA | 30KVA | 40KVA | 60KVA | 80KVA | 100KVA | 120KVA | 160KVA | 200KVA |
| Capacity | 8KW | 12KW | 16KW | 24KW | 32KW | 48KW | 64KW | 80KW | 96KW | 128KW | 160KW |
| Input | | | | | | | | | | | |
| Rated voltage | 208(120)/380/ 400/415 Vac three-phase | | | | | | | | | | |
| Voltage range | ± 25% | | | | | | | | | | |
| Frequency range | 45÷65Hz | | | | | | | | | | |
| Power factor | >0.9 with harmonic filter | | | | | | | | | | |
| Current harmonic distortion | <5% with harmonic filter | | | | | | | | | | |
| Soft Start | 0-100% in10'' | | | | | | | | | | |
| Bypass Input | | | | | | | | | | | |
| Rated voltage | 208(120)/380/400/415 Vac three-phase | | | | | | | | | | |
| Permitted voltage range | ±15%(selectable from ±10% to ± 25% from front panel) | | | | | | | | | | |
| Rated frequency | 50/60Hz | | | | | | | | | | |
| Permitted frequency range | ± 2%(selectable from ±1% to ± 5% from front panel) | | | | | | | | | | |
| Standard features | BackFeed portection; split bypass line | | | | | | | | | | |
| Batteries Voltage | | | | | | | | | | | |
| 125VDC;360VDC;384VDC;432VDC;480VDC optional | | | | | | | | | | | |
| Type | Maintenance-free lead-acid VRLA AGM / GEL; NICd | | | | | | | | | | |
| Maximum recharge current(A) | 0.2 X C10 | | | | | | | | | | |
| AC ripple voltage | <1% | | | | | | | | | | |
| Inverter output | | | | | | | | | | | |
| Rated power(kVA) | 10KVA | 15KVA | 20KVA | 30KVA | 40KVA | 60KVA | 80KVA | 100KVA | 120KVA | 160KVA | 200KVA |
| Active power(kW) | 8KW | 12KW | 16KW | 24KW | 32KW | 48KW | 64KW | 80KW | 96KW | 128KW | 160KW |
| Number of phases | 3+N | | | | | | | | | | |
| Rated voltage(V) | 208(120)/380/ 400/415/480 Vac | | | | | | | | | | |
| Regulation of the output voltage | 348÷424Vac phase/neutral(from control panel) | | | | | | | | | | |
| Crest factor(Ipeak/Irms) | 3:1 | | | | | | | | | | |
| Static stability | ±1% | | | | | | | | | | |
| Dynamic stability | ±5% | | | | | | | | | | |
| Frequency | 50/60Hz configurable | | | | | | | | | | |
| Overload | 110% 125% 150% of the rated current for 5h/10'/1' | | | | | | | | | | |
| Frequency stability | ±0.05% on mains failure; ± 2%(selectable from ± 1% to ± 5%) with mains supply present | | | | | | | | | | |
| System | 10KVA | 15KVA | 20KVA | 30KVA | 40KVA | 60KVA | 80KVA | 100KVA | 120KVA | 160KVA | 200KVA |
| Remote signaling | Volt free contacts | | | | | | | | | | |
| Remote controls | EPO and Bypass | | | | | | | | | | |
| Communication | RS232 + remote contacts | | | | | | | | | | |
| Operation temperature | 0°C / + 40°C | | | | | | | | | | |
| Relative humidity | <95% non condensing | | | | | | | | | | |
| Colour | Light grey (RAL 7035) | | | | | | | | | | |
| Noise | 54~62dBA at 1m | | | | | | 54~65dBA at 1m | | | | |
| Protection degree | IP20 | | | | | | | | | | |
| Efficiency Smart Mode | up to 98% | | | | | | | | | | |
| Compliance | Safety:EN 62040-1-1(Directive 2006/95/EC); EMC:6200-2(Directive 2004/108/EC) | | | | | | | | | | |
| Weight (KG) N.W | 200 | 220 | 230 | 290 | 340 | 440 | 520 | 770 | 855 | 1300 | 1350 |
| Dimensions : (Wx D x H)mm | 555X720X1200 | | | | | 800X740X1400 | | 1070X740X1400 | | 1420X740X1805 | |
| Internal batteries | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No |

STANDARD: Conform to GB/IEC regulation: EMC:GB7260.2/IEC62040-2 GB/17626.2~5/IEC61000-4-2~5 SAFETY:GB4943