



# DELPHYS GP

High-efficiency protection without compromise  
Green Power 2.0 range from 160 to 1000 kVA/kW

Three-phase UPS



GAAME 739 PSD

## The solution for

- > Data centres
- > Telecommunications
- > Healthcare sector
- > Service sector
- > Infrastructure
- > Industrial applications

## Attestations and certifications



DELPHYS GP is attested by  
Bureau Veritas



DELPHYS GP 160, 200 and  
500 kVA/kW are seismic  
certified by VirLab

## Advantages



Ready for Li-Ion battery



Battery Capacity  
Re-injection

## Our dedicated Expert Services for UPS

We offer services to ensure  
your UPS highest availability:

- > Commissioning
- > On-site intervention
- > Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- > Maintenance packages
- > Training



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## Energy saving + Full rated power = reduced TCO

### Energy saving: high efficiency without compromise

- Offers the highest efficiency in the market using VFI – Double Conversion Mode, the only UPS working-mode that assures total load protection against all mains quality problems.
- Ultra high efficiency output independently tested and verified by an international certification organization in a wide range of load and voltage operating condition.
- Ultra high efficiency in VFI mode is provided by an innovative topology (3-Level technology) that has been developed for all the Green Power 2.0 UPS ranges.

### Full rated power: kW=kVA

- No power downgrading when supplying the latest generation of servers (leading or unity power factor).
- Real full power, according to IEC 62040: kW=kVA (unity power factor design) means 25% more active power available compared to legacy UPS.
- Suitable also for leading power factor loads down to 0.9 without apparent power derating.

### Significant cost-saving (TCO)

- Maximum energy saving thanks to 96% efficiency in true double conversion mode: 50% saving on energy losses compared to legacy UPS gives significant savings in energy bill.
- Up to 99% efficiency with FAST ECOMODE.
- UPS "self-paying" with energy saving.
- Energy Saver mode for global efficiency improvement on parallel systems.
- kW=kVA means maximum power available with the same UPS rating: no overdesign cost and therefore less €/kW.
- Upstream infrastructure cost optimization (sources and distribution), thanks to high performance IGBT rectifier.
- Extended battery life and performance:
  - long life battery,
  - very wide input voltage and frequency acceptance, without battery use.
- EBS (Expert Battery System) charging management improves battery service life.
- BCR (Battery Capacity Re-injection) removes the constraints of using an additional load bank for the battery discharge test: it consists in re-injecting the energy stored in the batteries to other applications.

#### Parallel systems

To fulfil the most demanding needs for power supply availability, flexibility and the installation to be upgraded.

- Modular parallel configurations up to 4MW, development without constraint.
- Distributed or centralized bypass flexibility to ensure a perfect compatibility with the electrical infrastructure.
- Twin channel architecture with Static Transfer Systems.
- Distributed or shared battery for energy storage optimization on parallel systems.

#### Standard electrical features

- Integrated maintenance bypass for single unit (and 1+1 system).
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.
- Redundant cooling.
- Battery temperature sensor.

#### Electrical options

- Separated or common input mains.
- External maintenance bypass.
- Extended battery charger capability.
- Shared battery.
- Compatible with different battery technologies (e.g. Li-Ion, Ni-Cd...).
- Galvanic isolation transformer.
- Backfeed isolation device.
- ACS synchronisation system.
- BCR (Battery Capacity Re-injection).
- FAST ECOMODE.

#### Technical data

| DELPHYS GP                                                    |                                                                                                                             |          |          |         |         |          |         |          |         |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------|----------|---------|---------|----------|---------|----------|---------|
| Sn [kVA]                                                      | 160                                                                                                                         | 200      | 250      | 300     | 400     | 500      | 600     | 800      | 1000    |
| Pn [kW]                                                       | 160                                                                                                                         | 200      | 250      | 300     | 400     | 500      | 600     | 800      | 1000    |
| Input / output                                                | 3/3                                                                                                                         |          |          |         |         |          |         |          |         |
| Parallel configuration                                        | up to 4 MW                                                                                                                  |          |          |         |         |          |         |          |         |
| INPUT                                                         |                                                                                                                             |          |          |         |         |          |         |          |         |
| Rated voltage                                                 | 400 V 3ph                                                                                                                   |          |          |         |         |          |         |          |         |
| Voltage tolerance                                             | 200 V to 480 V <sup>(1)</sup>                                                                                               |          |          |         |         |          |         |          |         |
| Rated frequency                                               | 50/60 Hz                                                                                                                    |          |          |         |         |          |         |          |         |
| Frequency tolerance                                           | ± 10 Hz                                                                                                                     |          |          |         |         |          |         |          |         |
| Power factor / THDI                                           | > 0.99 / < 2.5% <sup>(3)</sup>                                                                                              |          |          |         |         |          |         |          |         |
| OUTPUT                                                        |                                                                                                                             |          |          |         |         |          |         |          |         |
| Power factor                                                  | 1 (according to IEC/EN 62040-3)                                                                                             |          |          |         |         |          |         |          |         |
| Rated voltage                                                 | 3ph + N 400 V                                                                                                               |          |          |         |         |          |         |          |         |
| Voltage tolerance static load                                 | ±1 % dynamic load in accordance with VFI-SS-111                                                                             |          |          |         |         |          |         |          |         |
| Rated frequency                                               | 50/60 Hz                                                                                                                    |          |          |         |         |          |         |          |         |
| Frequency tolerance                                           | ± 2% (configurable for GenSet compatibility)                                                                                |          |          |         |         |          |         |          |         |
| Total output voltage distortion linear load                   | ThdU < 1.5%                                                                                                                 |          |          |         |         |          |         |          |         |
| Total output voltage distortion non-linear load (IEC 62043-3) | ThdU < 3%                                                                                                                   |          |          |         |         |          |         |          |         |
| Short-circuit current <sup>(2)</sup>                          | up to 3.4 x In                                                                                                              |          |          |         |         |          |         |          |         |
| BYPASS                                                        |                                                                                                                             |          |          |         |         |          |         |          |         |
| Rated voltage                                                 | rated output voltage                                                                                                        |          |          |         |         |          |         |          |         |
| Voltage tolerance                                             | ± 15% (configurable from 10% to 20%)                                                                                        |          |          |         |         |          |         |          |         |
| Rated frequency                                               | 50/60 Hz                                                                                                                    |          |          |         |         |          |         |          |         |
| Frequency tolerance                                           | ± 2% (configurable for GenSet compatibility)                                                                                |          |          |         |         |          |         |          |         |
| EFFICIENCY                                                    |                                                                                                                             |          |          |         |         |          |         |          |         |
| Online mode @ 40 % of load                                    | up to 96%                                                                                                                   |          |          |         |         |          |         |          |         |
| Online mode @ 75 % of load                                    | up to 96%                                                                                                                   |          |          |         |         |          |         |          |         |
| Online mode @ 100 % of load                                   | up to 96%                                                                                                                   |          |          |         |         |          |         |          |         |
| Fast EcoMode                                                  | up to 99%                                                                                                                   |          |          |         |         |          |         |          |         |
| ENVIRONMENT                                                   |                                                                                                                             |          |          |         |         |          |         |          |         |
| Operating ambient temperature                                 | from 0 °C up to +40 <sup>(1)</sup> °C (from 15 °C to 25 °C for maximum battery life)                                        |          |          |         |         |          |         |          |         |
| Relative humidity                                             | 0 % - 95 % without condensation                                                                                             |          |          |         |         |          |         |          |         |
| Maximum altitude                                              | 1000 m without derating (max. 3000 m)                                                                                       |          |          |         |         |          |         |          |         |
| Acoustic level at 1 m (ISO 3746)                              | < 65 dBA                                                                                                                    | < 67 dBA | < 70 dBA |         |         | < 72 dBA |         | < 74 dBA |         |
| UPS CABINET                                                   |                                                                                                                             |          |          |         |         |          |         |          |         |
| Dimensions                                                    | W                                                                                                                           | 700 mm   | 1000 mm  | 1400 mm | 1600 mm | 2800 mm  | 3510 mm | 3910 mm  |         |
|                                                               | D                                                                                                                           | 800 mm   | 950 mm   | 800 mm  | 950 mm  |          | 950 mm  |          |         |
|                                                               | H                                                                                                                           | 1930 mm  |          |         |         |          |         | 2060 mm  |         |
| Weight                                                        | 470 kg                                                                                                                      | 490 kg   | 850 kg   | 900 kg  | 1000 kg | 1500 kg  | 2300 kg | 2800 kg  | 3850 kg |
| Degree of protection                                          | IP20 (other IP as option)                                                                                                   |          |          |         |         |          |         |          |         |
| Colours                                                       | cabinet: RAL 7012, door: silver grey                                                                                        |          |          |         |         |          |         |          |         |
| STANDARDS                                                     |                                                                                                                             |          |          |         |         |          |         |          |         |
| Safety                                                        | IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2                                                                                  |          |          |         |         |          |         |          |         |
| EMC                                                           | IEC/EN 62040-2, AS 62040.2                                                                                                  |          |          |         |         |          |         |          |         |
| Performance                                                   | IEC/EN 62040-3, AS 62040.3                                                                                                  |          |          |         |         |          |         |          |         |
| Seismic compliance <sup>(4)</sup>                             | Uniform Building Code UBC-1997, EN 60068-3-3/1993 (seismic), EN 60068-2-6/2008 (sinusoidal), EN 60068-2-47/2005 (mounting). |          |          |         |         |          |         |          |         |
| Product declaration                                           | CE, RCM (E2376)                                                                                                             |          |          |         |         |          |         |          |         |

(1) Conditions apply. (2) Worst condition (Auxiliary Mains not available). (3) With input THDI < 1%. (4) 160, 200 and 500 kVA/kW models.

#### Standard communication features

- User-friendly 7" touch-screen multilingual colour graphic display.
- 2 slots for communication options.
- USB port to download UPS report and log file.
- Ethernet port for service purpose.

#### Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or MODBUS TCP.
- PROFIBUS / PROFINET gateway.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.
- IoT gateway for Socomec cloud services and SOLIVE UPS mobile app.
- Remote touch-screen panel.
- Additional Com-slot extension.

#### Remote monitoring and cloud services

- LINK-UPS: Socomec 24/7 remote monitoring service connecting your installation to the nearest Socomec Service Centre.
- SOLIVE UPS: mobile app enabling the monitoring of the UPS systems from a smartphone.