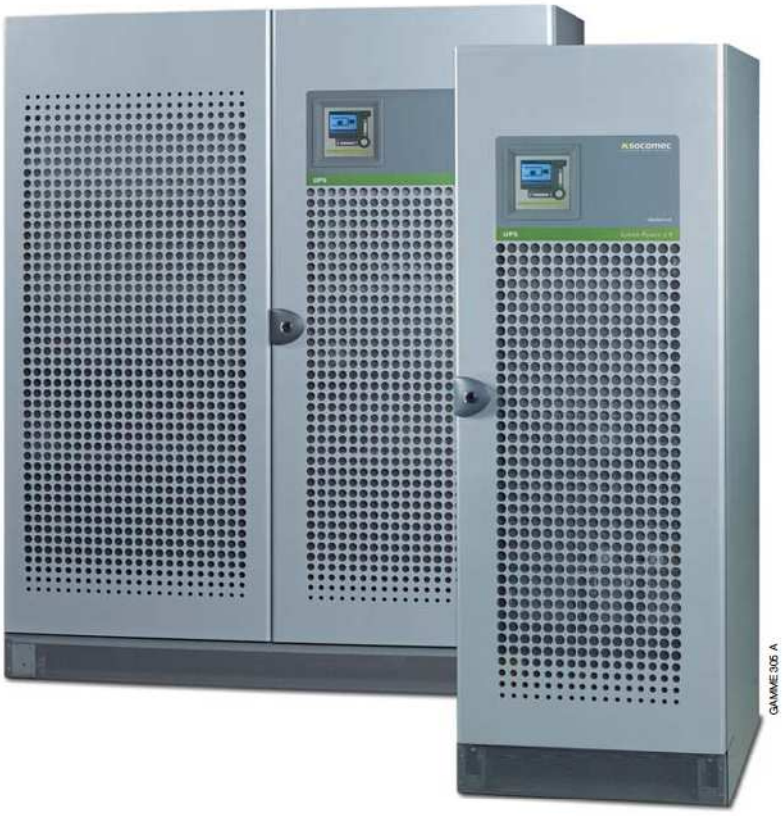
Green Power 2.0

DELPHYS GP from 160 to 500 kVA/kW

ultra high energy efficiency and maximum power availability up to 4 MW



The solution for

- Data centres
- Telecommunications
- Service sector
- IT Networks / Infrastructures

Attestations

BUREAU VERITAS

Green Power 2.0 is attested by Bureau Veritas

Advantages

3 LEVEL TECHNOLOGY

96% EFFICIENCY

kW = kVA

Flywheel COMPATIBLE

Better performance than the EU Code of Conduct on efficiency of AC UPS

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 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.
- BHC INTERACTIVE: Accurate battery monitoring with UPS interactivity for even more prolonged service life.

Parallel systems

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

- Modular parallel configurations up to 4 MW, 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

- Dual input mains.
- Integrated maintenance bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.
- Redundant cooling.
- Battery temperature sensor.

Electrical options

- External maintenance bypass.
- Extended battery charger capability.
- Shared battery.
- Flywheel compatible.
- Galvanic isolation transformer.
- Backfeed isolation device.
- ACS synchronisation system.
- BHC INTERACTIVE.
- FAST ECOMODE.

Standard communication features

- User-friendly multilingual interface with graphic display.
- 2 slots for communication options.
- RS232 serial port for modem.
- Ethernet connection (WEB/SNMP/MODBUS TCP/email).
- USB port for event log access.

Communication options

- Advanced server shutdown options for stand-alone and virtual servers.
- 4 additional slots for communication options.
- ADC interface (configurable voltage-free contacts).
- MODBUS/JBUS RTU.
- BACnet/IP interface.
- SMS alert.

Remote monitoring service

- Remote mobile and web-based surveillance service connected 24/7 to your local Socomec Service Centre.

Technical data

		DELPHYS GP					
Sn [kVA]		160	200	250	320	400	500
Pn [kW]		160	200	250	320	400	500
Input/output		3/3					
Parallel configuration		up to 4 MW					
INPUT							
Rated voltage		400 V 3ph					
Voltage tolerance		200 V to 480 V (1)					
Rated frequency		50/60 Hz					
Frequency tolerance		± 10 Hz					
Power factor / THDI		> 0.99 / < 2.5% (2)					
OUTPUT							
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		up to 3.4 x In					
Overload		125% for 10 minutes, 150% for 1 minute (1)					
Crest factor		3:1					
BYPASS							
Rated voltage		rated output voltage					
Voltage tolerance		± 15% (configurable with 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 10 °C up to +40 (1) °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	< 68 dBA	< 70 dBA	< 72 dBA
UPS CABINET							
Dimensions	W	700 mm		1000 mm	1400 mm		1600 mm
	D	800 mm		950 mm	800 mm		950 mm
	H	1930 mm					
Weight		470 kg	490 kg	850 kg	980 kg	1000 kg	1500 kg
Degree of protection		IP20 (other IP as option)					
Colours		cabinet: RAL 7012, door: silver grey					
STANDARDS							
Safety		EN 62040-1, EN 60950-1					
EMC		EN 62040-2					
Performance		EN 62040-3 (VFI-SS-111)					
Product declaration		CE					

(1) Conditions apply. (2) With input THDV < 1%.