



Illustrative photo

### 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 conditions. 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) 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.
- Battery configuration can be optimized, thanks to a very wide DC range.
- 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 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

- 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.
- Flywheel compatible.
- Galvanic isolation transformer.
- Backfeed isolation device..
- ACS synchronization system.
- BCR (Battery Capacity Re-injection).
- FAST ECOMODE.

### Standard communication features

- User-friendly multilingual interface with color graphic display.
- 2 slots for communication options.
- Ethernet connection (WEB/SNMP/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 TCP.
- MODBUS RTU.
- BACnet/IP interface.

### Remote monitoring service

- LINK-UPS, remote monitoring service that connects your UPS to your Critical Power specialist 24/7.

Withdrawable rails



Capacitors are mounted on withdrawable rails



# UPS DELPHYS GP 2.0

## 160-800 kVA



### Technical data

DELPHYS GP 2.0 160-800								
Nominal power (kVA)	160	200	250	320	400	500	600	800
Active power (kW)	160	200	250	320	400	500	600	800
Input / output	3/3							
Parallel configuration	up to 4 MW							
<b>Input</b>								
Rated voltage	400 V 3ph							
Voltage tolerance	240 V to 480 V <sup>(1)</sup>							
Rated frequency / tolerance	50/60 Hz / ± 10 %							
Power factor / THDI	> 0.99 / < 2.5 % <sup>(3)</sup>							
<b>Output</b>								
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 / non-linear load	ThdU < 1.5% / ThdU < 3%							
Short-circuit current <sup>(2)</sup>	up to 3.4 x I <sub>n</sub>							
<b>Bypass</b>								
Rated voltage	rated output voltage							
Voltage tolerance	± 15% (configurable with from 10% to 20%)							
Rated frequency / tolerance	50/60 Hz / ± 2% configurable for GenSet compatibility)							
<b>Efficiency</b>								
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%							
<b>Environment</b>								
Operating ambient temperature	0 to 40 °C (15 to 25 °C for maximum battery life)							
Relative humidity	0 to 95 % without condensation							
Maximum altitude	1000 m without derating (max. 3000 m)							
Noise level at 1 m	< 65 dBA	< 67 dBA	< 70 dBA	< 68 dBA	< 70 dBA	< 72 dBA	< 74 dBA	< 74 dBA
<b>UPS Cabinet</b>								
Dimension w x d x h (mm)	700	700	1000	1400	1400	1600	2800	3700
	800	800	950	800	800	950	950	950
	1930	1930	1930	1930	1930	1930	2060	2060
Weight (kg)	470	490	850	980	1000	1500	2300	3400
Degree of protection	IP20 (other IP as option)							
Colours	cabinet: RAL 7012, door: silver grey							
<b>Standards</b>								
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							
Product declaration	CE, RCM (E2376)							

(1) Conditions apply. (2) Worst condition (Auxiliary Mains not available). (3) With input THDV < 1%.

A2B, s.r.o. reserves the right to change any information without prior notice. (76-000052-01)