

DELPHYS GP

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



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.

The solution for

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

Attestations and certifications





DELPHYS GP Three-phase UPS Green Power 2.0 range from 160 to 1000 kVA/kW

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.

Technical data

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

- Seperated or common input mains.
- External maintenance bypass.
- Extended battery charger capability.
- Shared battery.
- Flywheel compatible.
- Galvanic isolation transformer.
- Backfeed isolation device.
- ACS synchronisation system.
- BCR (Battery Capacity Re-injection).
- FAST ECOMODE.

Standard communication features

- User-friendly multilingual interface with 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.

DELPHYS GP										
Sn [kVA]		160	200	250	320	400	500	600	800	1000
Pn [kW]		160	200	250	320	400	500	600	800	1000
Input/output			200	200	020	3/3			000	
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% (3)									
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 ⁽²⁾	up to 3.4 x In									
BYPASS										
Rated voltage	rated output voltage									
Voltage tolerance	\pm 15% (configurable from 10% to 20%)									
Rated frequency	50/60 Hz									
Frequency tolerance	\pm 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 temperatu	from 0 °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) < 65 dBA < 67 dBA < 70 dBA < 68 dBA < 70 dBA < 72 dBA < 74 dBA									
Acoustic level at 1 m (ISO 374	16)	< 65 dBA	< 67 dBA	< 70 dBA	< 68 dBA	< 70 dBA	. <72	2 dBA	<74	l dBA
UPS CABINET		=00		1000			1000		0510	0010
Dimensions	W		mm	1000 mm) mm		2800 mm	3510 mm	3910 mm
	D	800	mm	950 mm		mm	950 mm		950 mm	
	Н	1701	1001	1930		10001	15001		2060 mm	00501
Weight	470 kg	490 kg	850 kg			1500 kg	2300 Kg	2800 Kg	3850 Kg	
Degree of protection Colours	IP20 (other IP as option) cabinet: RAL 7012, door: silver grey									
STANDARDS				Ca	DINEL: RAL	. 7012, 00	or: silver gr	ey		
Safety				IEC/EN	62040 1	10 60040	11 10 60	040 1 2		
EMC	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2 IEC/EN 62040-2, AS 62040.2									
Performance	IEC/EN 62040-2, AS 62040.2 IEC/EN 62040-3, AS 62040.3									
Product declaration	CE, RCM (E2376)									
	conditio	n (Auxiliary Mains not available). (3) With input THDV < 1%.								
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