

DELPHYS GP

High-efficiency protection without compromise Green Power 2.0 range from 160 to 800 kVA/kW

Three-phase 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 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



U R E A U V E R I T A S DELPHYS GP is attested by Bureau Veritas

Advantages











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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

		DELPHYS GP							
Sn [kVA]		160	200	250	320	400	500	600	800
Pn [kW]		160	200	250	320	400	500	600	800
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	\pm 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(1)	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		± 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 temperatur	re		from 10 °C	up to +40 ⁽¹⁾	°C (from 15 °	°C to 25 °C	for maximun	n batterv 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		0.	,	2 dBA	< 74 dBA
UPS CABINET	-)								
	W	700	mm	1000 mm	1400	mm	1600 mm	2800 mm	3700 mm
Dimensions	D		mm	950 mm	800		950 mm		mm
	H) mm		000 1111		0 mm
Weight		470 kg	490 kg	850 kg		1000 kg	1500 kg	2300 kg	3400 kg
Degree of protection		nong	100 kg	v	IP20 (other I	v	•	2000 Ng	oroong
Colours	cabinet: RAL 7012, door: silver grey								
STANDARDS				ouoni		.,	- 9.01		
Safety	IEC/EN 62040-1, EN 60950-1, AS 62040.1.1, AS 62040.1.2								
EMC	IEC/EN 02040-1, EN 00330-1, AO 02040.1.1, AO 02040.1.2								
Performance	VFI-SS-111 - IEC/EN 62040-3, AS 62040.3								
Product declaration	CE, RCM (E2376)								
		UE, KUWI (E2370)							

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

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.

