



# DELPHYS GP-S

Solution for seismic environments

Green Power 2.0 range from 160 to 500 kVA/kW

Three-phase UPS



GAMME 303 A

## The solution for

- > Data centres
- > Telecommunications
- > Service sector
- > IT Networks / Infrastructures
- > Industrial infrastructures

## Attestations and certifications



## Advantages



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

Seismic risks are a real problem that can have important consequences for mission critical applications, business continuity, UPS performance levels and the quality of the power supply.

The DELPHYS GP-S has been specifically designed to withstand seismic activity and provides you with all the benefits of our cutting-edge technology.

## The tests

- DELPHYS GP-S units have been tested by VIRLAB S.A. (accredited by ENAC, Spanish National Accreditation Entity, ENAC certificate number 54/LE131) in compliance with the standard test procedure for the seismic qualification of electrical cabinets required by the "Uniform Building Code UBC-1997".
- The UPS have been submitted to resonance search tests on the three main axes: longitudinal, transverse and vertical.
- The seismic tests have been performed according to UBC-1997 covering zone 2A, 3 and 4. As required by the norms, the UPS have been submitted 5 times at 50% of full level in zone 2A and at full level in Zones 2A, 3 and 4.

## The results

- The DELPHYS GP-S units have successfully passed seismic tests performed at levels covering Zones 2A, 3 and 4 and experienced no malfunction either during or after the test.

#### 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 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.
- Galvanic isolation transformer.
- Backfeed isolation device.
- ACS synchronisation system.
- FAST ECOMODE.

#### Technical data

DELPHYS GP			
Sn [kVA]	160	200	500
Pn [kW]	160	200	500
Input / output	3/3		
Parallel configuration	up to 4 MW		
<b>INPUT</b>			
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>(2)</sup>		
<b>OUTPUT</b>			
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>(1)</sup>	up to 3.4 x In		
<b>BYPASS</b>			
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)		
<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	from 10 °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	< 72 dBA
<b>UPS CABINET</b>			
Dimensions	W	700 mm	1600 mm
	D	800 mm	950 mm
	H	1930 mm	
Weight	470 kg	490 kg	1500 kg
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		
Seismic compliance	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) Worst condition (Auxiliary Mains not available). (2) With input THDV < 1%.

#### Standard communication features

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

#### Remote monitoring service

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