DELPHYS GP-S

Solution for seismic environments

Green Power 2.0 range from 160 to 500 kVA/kW

Three-phase UPS

The solution for

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

Attestations and certifications

BUREAU VERITAS

DELPHYS GP-S is attested by Bureau Veritas

VIRLAB

DELPHYS GP-S is seismic certified by Virlab

Advantages

3 LEVEL

96%

PF 1 @ VFI-S-111

kW = kVA

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.

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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 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.

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.

Technical data

		DELPHYS GP		
Sn [kVA]		160	200	500
Pn [kW]		160	200	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(1)		up to 3.4 x In		
BYPASS				
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)		
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	< 72 dBA
UPS CABINET				
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		
STANDARDS				
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%.