

Delphys Green Power

160 – 400 kVA

Your protection for

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



96%

The highest efficiency performance on the market

Green Power advantages

- **Significant cost savings (TCO)**
 - Maximum energy saving thanks to 96% output efficiency
 - 0.9 power factor
 - Highly compact UPS and battery cabinet saves valuable floor space
 - Extended battery life and performance
 - Minimum amount of battery cabinets for equivalent back-up time thanks to ultra high efficiency, very wide input voltage and frequency rectifier, acceptance without battery use, wide selection of battery configurations (very flexible DC bus voltage).
- **Optimised electrical network**
 - Smaller upstream information, due to very low input current
 - High active power availability for servers thanks to the 0.9 output power factor, all the power can be used with the latest servers.
 - Designed to work with latest-generation servers
- **High availability**
 - Advanced battery monitoring and management
 - High availability architectures
 - Internal redundancy thanks to the redundant cooling system to ensure a permanent power supply even in the event of system failure.
 - BHC Universal (Battery Health Check), stand-alone battery monitoring system to provide permanent monitoring of the battery system.
- **User-friendly and advanced communication facility**
 - User-friendly multilingual interface with graphic display
 - Flexible communication for every BMS
 - 24/7/365 monitoring
 - Advanced server shutdown options

Technical data

Green Power				
Sn [kVA]	160	200	320	400
Pn [kW]	144	180	288	360
Input / output : 3/3	•	•	•	•
Input				
Rectifier rated voltage	400 V 3ph			
Voltage tolerances	±20% without derating, -40% with 50% of Pn			
Input frequency	50 / 60 Hz ± 10%			
Power factor / THDI	> 0.99 / < 2.5 %			
Bypass rated voltage: 3ph + N	400 V			
Output				
Voltage	400 V 3ph + N ± 1% (380 / 415 V configurable)			
Voltage tolerance	static load ± 1%, dynamic load in accordance with VFI-SS-111			
Frequency	50 / 60 Hz ± 2% (configurable for GenSet compatibility)			
Autonomous frequency tolerance	0.02 %			
Automatic bypass	rated voltage output ±15% (configurable with generator from 10% to 20%)			
Total harmonic voltage distortion	< 2% with linear load / < 4% with non linear load			
Overload for 10 minutes (kW)	180	225	360	450
Overload for 1 minute (kW)	216	270	432	540
Crest factor	3 : 1			
Short circuit current	up to 3.4 x In			
EFFICIENCY (BUREAU VERITAS attested)				
Online mode @ 50% of load	96 %			
Online mode @ 75% of load	96 %			
Online mode @ 100% of load	95.5 %			
ENVIRONMENT				
Operating environment temp.	from 0°C up to +35°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)			
Noise level (ISO 3746)	< 65 dB (A)		< 68 dB (A)	
Paralleling units	up to 8		up to 4	
Flywheel ready	•			
UPS CABINET				
Dimensions (W x D x H) [mm]	700 x 800 x 1930		1400 x 800 x 1930	
Weight (kg)	460		980	
Degree of protection	IP 20 (other IP in option)			
Colours	dark grey, silver grey frontal door			
STANDARDS				
Safety	EN 62040-1, EN 60950-1			
Performance	EN 62040-3 (VFI-SS-111)			
Electromagnetic compatibility	EN 62040-2			
Product declaration	CE			


Availability

- The system is supplied with top-quality electrical power, minimising the risk of downtime.
- Protection is ensured by the use of on-line double conversion UPS, the most reliable technology on the market.
- The system is fully safeguarded against power cuts and any disturbances caused by the mains power supply and distorting loads.

Saving

- UPS energy costs cut by up to 40 %.
- Savings are guaranteed by the highest available efficiency performance for on-line double conversion UPS on the market, certified up to 96 %.
- Optimising the power supply to the system makes it possible to reduce the use of non-recyclable materials and cut CO₂ emissions.