



Illustrative photo

With its flexible modularity providing seamless and risk-free power scalability up to 600 kW, the MODULYS GP range is the ideal solution for unscheduled site upgrades or incremental power evolutions. The installed power can be increased up to 600 kW by adding hot-swap plug-in power modules for incremental steps of 25 kW.

Designed with no single point of failure, the MODULYS GP offers all the advantages of the Green Power 2.0 technology.

### Fully modular system

- Plug-in power module.
- Plug-in battery module.
- Plug-in bypass module.
- Top or bottom connection.
- Top-air exhaust module.

### 'Forever Young' concept

- Exclusive life cycle extension programme.
- Eliminates end-of-life criticality.
- Based on an electronics-free cabinet + a set of plug-in parts.
- Module compatibility guaranteed for 20+ years.
- Allows for the implementation of future technology.

### Totally redundant design

- N+1, N+x redundancy level.
- Designed for no single point of failure.
- No centralised parallel control.
- Totally independent power modules.
- Redundant parallel bus connection (ring configuration).

### Enhanced serviceability performance

- Fast & safe maintenance based on hotswap parts (power modules, bypass, electronic boards).
- Battery can be hot-swapped without shutting down the connected equipment.
- Ready for concurrent maintenance.

### Standard electrical features

- Dual input mains.
- Internal maintenance bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.
- Battery temperature sensor.

### Electrical options

- External battery cabinet.
- High capacity battery charger.
- ACS synchronisation system.
- Internal backfeed isolation device.

### Standard communication features

- User-friendly multilingual interface with color graphic display.
- Commissioning wizard.
- 2 slots for communication options.

### Communication options

- Dry-contact, RS232/485 interfaces.
- MODBUS RTU.
- MODBUS TCP.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

### Remote monitoring service

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



# UPS MODULYS GP 2.0

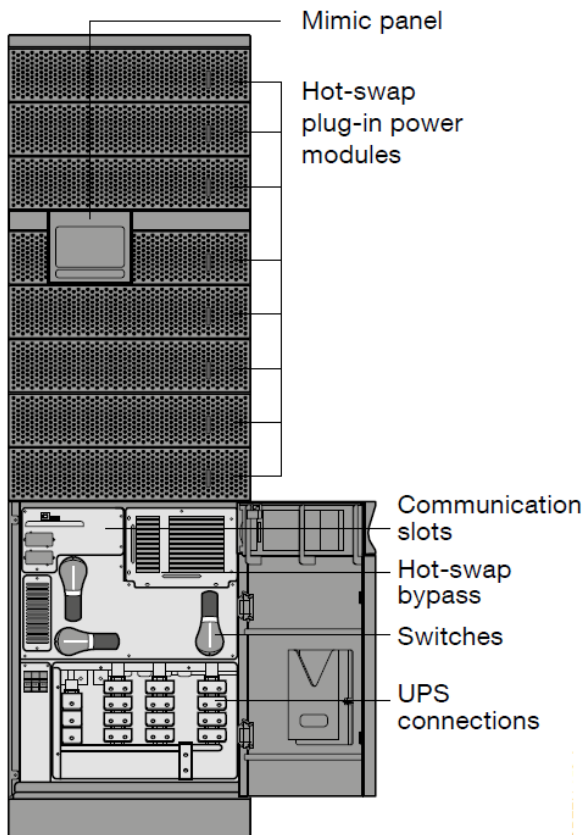
## 25-600 kVA



### Technical data

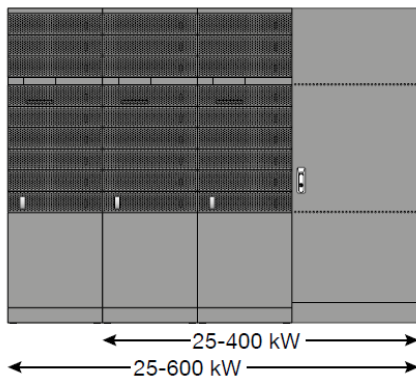
<b>MODULYS GP 2.0 25-600</b>			
Nominal power (kVA)	25 to 200	25 to 400	25 to 600
Active power (kW)	25 to 200	25 to 400	25 to 600
Number of power modules	1 to 8	1 to 16	1 to 24
Input / output	3/3		
Redundant configuration	N+x		
<b>Input</b>			
Voltage	400 V 3ph+N (340 V to 480 V)		
Rated frequency / tolerance	50/60 Hz / ± 10 %		
Power factor / THDI	> 0.99 / < 2.5 %		
<b>Output</b>			
Power factor	1 (according to IEC/EN 62040-3)		
Voltage	380/400/415 V ±1% 3ph+N		
Frequency	50/60 Hz ±0.1%		
Voltage distortion	< 1% (linear load), < 4% (non-linear load according to IEC 62040-3)		
Short-circuit current	up to 3 x I <sub>n</sub>		
Overload	125% for 10 minutes, 150% for 1 minute		
Crest factor	3:1		
<b>Bypass</b>			
Voltage	rated output voltage ±15% (configurable with from 10% to 20%)		
Frequency	50/60 Hz ±2% (configurable for GenSet compatibility)		
<b>Efficiency</b>			
Online double conversion mode	up to 96.5%		
<b>Environment</b>			
Ambient temperature	0 to 40 °C (15 to 25 °C for maximum battery life)		
Relative humidity	0 to 95 % without condensation		
Maximum altitude	1000 m without derating (max. 3000 m)		
Noise level at 1 m	< 55 dBA		
<b>System Cabinet</b>			
Width	600 mm	2 x 600 mm (combinable system) 2010 mm (fully integrated solution)	3 x 600 mm (combinable system) 2610 mm (fully integrated solution)
Depth	890 mm		
Height	1975 mm		
Weight (empty cabinet)	210 kg	2 x 210 kg (combinable system) 780 kg (fully integrated solution)	3 x 210 kg (combinable system) 1010 kg (fully integrated solution)
Degree of protection	IP20		
<b>Standards</b>			
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2		
EMC	IEC/EN 62040-2 Class C2, AS 62040.2		
Performance	IEC/EN 62040-3, AS 62040.3		
Seismic compliance	On request according to Uniform Building Code UBC-1997 Zone 4		
Environmental	IEC/EN 62040-4		
Product declaration	CE, RCM (E2376)		
<b>Power Module</b>			
Height	3U		
Weight	34 kg		
Type	Hot plug-in / Hot-swappable		
MTBF	> 1 000 000 hours (calculated and verified)		

### A flexible modular UPS system



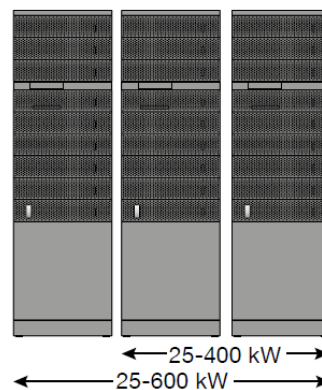
#### Fully integrated solution

- UPS system cabinets + coupling cabinet + base plates
- UPS system cabinets + coupling cabinet + base plates
- Innovative base plates simplify the installation and allow a tidy and segregated cabling for higher system reliability.



#### Combinable system

- It allows the creation of a system when:
  - an external coupling cabinet is already present (i.e. in case of replacement of an existing UPS),
  - a coupling cabinet with a special configuration is required and it has to be developed specifically,
  - the UPS system cabinets cannot be installed side-by-side.



#### On-line power scalability

- MODULYS GP allows you to increase power scalability and redundancy while keeping the load protected on inverter mode simply by plugging in a new power module and waiting for its automatic self-configuration, without any human intervention.

#### Power module automatic firmware alignment

- Even the power module firmware alignment is totally risk free.
- When a new power module is plugged in, the system checks what firmware version is embedded and if it is different automatically aligns it to one of the other modules. The load is protected at all times while running on inverter mode.

A2B, s.r.o. reserves the right to change any information without prior notice. (76-000062-01)