



MODULYS System

from 1.5 to 24 kVA

a modular UPS for mission critical applications

Single-phase UPS



GAMME 237 A

The solution for

- > e.business
- > Server farms
- > Telecommunications
- > Medical
- > Computer networks

A completely modular system

- **MODULYS System** is the most flexible and modular system in the entire range.

For use under constraints

- Designed for the most demanding IT applications, such as data centres, ISP and ASP and call centres, **MODULYS System** guarantees unparalleled continuity of service. Offering a large number of available slots, it can be easily upgraded in terms of power and back-up time, and provides the essential redundancy required by these strategic applications.

Full digital control technology

- **MODULYS System** is controlled by digital circuits. Their use allows for greater precision and ensures that the operating parameters of the whole system are stable over time.

The answer to all your needs

Upgradable over time

- **MODULYS** adapts easily to changes and to the growth of your system. Power modules of 1.5, 3, 4.5 and 6 kVA, in tower, rack and system versions are easily combined to ensure the ideal configuration.

Total protection

- **MODULYS** is a modular UPS. The number of Mod-Power and Mod-Battery units can easily be increased to provide redundant operation, from N + 1 to N + X. In this way, total availability of the system is achieved, even if one or more modules are inoperative.

Continuous protection

- **MODULYS** has “hot swap” power and back-up modules which can be replaced or inserted while the system is in operation. In this way, true continuity of power supplied to the load is achieved, without any interruption of service.

Organisation of your future needs

- **MODULYS** modular design allows the number of modules to be increased and therefore, the power and back-up time of your UPS to grow. In this way you can easily cope with future situations which you are not able to predict today.

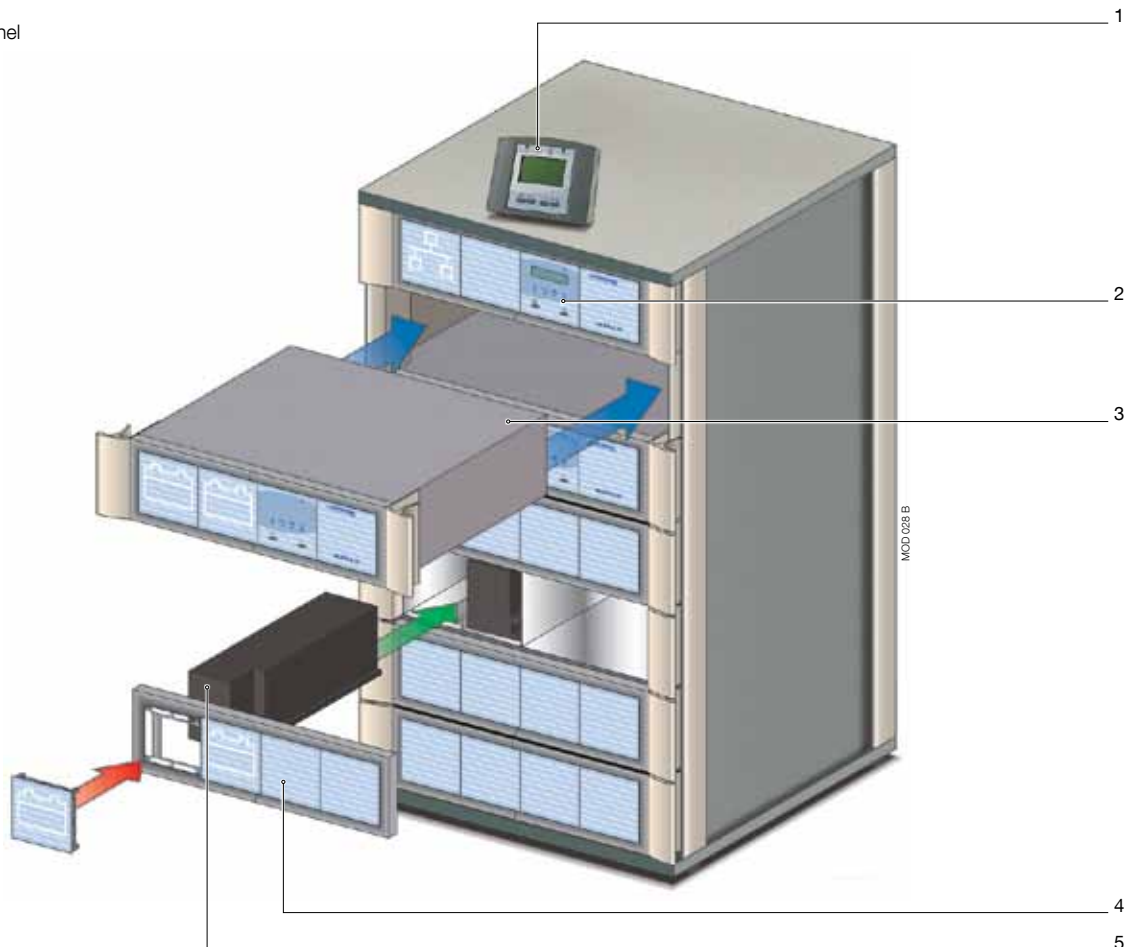
Working space

- **MODULYS** is the most compact UPS in its category. Whether in stand-alone version or one of the many system configurations, the installation takes up very little of your working area.

“No Single Point of Failure” solutions

- Each power module has its own integrated controller and an automatic bypass. In the system version, this design provides an additional guarantee since the load will be powered even if one of the modules is not working.

1. Remote control panel
2. Mimic panel
3. Mod-Power
4. Mod-Battery
5. Battery pack



MODULYS System

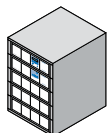
from 1.5 to 24 kVA

Single-phase UPS

MODULYS MC

Basic configurations

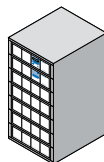
Mod-MC 4XX
expandable from 1.5 to 6 kVA



MOD 070 A

| Model | MC 415 | MC 430 |
|--------------|-------------|-------------|
| Mod-Power | 1 x 1500 VA | 1 x 3000 VA |
| Battery pack | 1 | 2 |

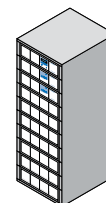
Mod-MC 6XX
expandable from 4.5 to 18 kVA



MOD 071 A

| Model | MC 645 | MC 660 | MC 660 six |
|--------------|-------------|-------------|--------------|
| Mod-Power | 1 x 4500 VA | 2 x 3000 VA | 1 x 6 000 VA |
| Battery pack | 3 | 4 | 4 |

Mod-MC 9XX
expandable from 6 to 24 kVA



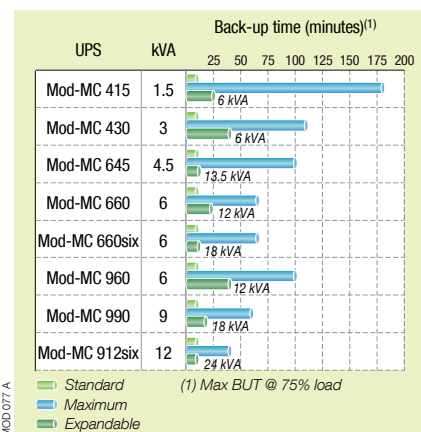
MOD 072 A

| Model | MC 960 | MC 990 | MC 912 six |
|--------------|-------------|-------------|--------------|
| Mod-Power | 2 x 3000 VA | 2 x 4500 VA | 2 x 6 000 VA |
| Battery pack | 4 | 6 | 8 |

Technical data

| MODULYS MC | |
|------------------------------------|---|
| MOD-POWER | |
| Sn [VA] | 1500 3000 4500 6000 |
| Pn [W] | 1050 2100 3150 4200 |
| Input/output | 1/1 1/1, 3/1 |
| INPUT | |
| Rated voltage | 230 V (1ph) 230 V (1ph + N) or 400 V (3ph + N) |
| Voltage tolerance | ± 20% (up to -30% at 70% nominal load) |
| Rated frequency | 50/60 Hz |
| Frequency tolerance | ± 10% |
| Power factor / THDI | > 0.99 / 6% |
| OUTPUT | |
| Rated voltage | 230 V (1ph + N) |
| Voltage tolerance | ± 3% (can be set 208/220/240 V) |
| Rated frequency | 50/60 Hz |
| Frequency tolerance | ± 2% (± 0.1% autonomous frequency) |
| Overload | 110% for 1 minute, 130% for 10 seconds, 200% for 5 cycles |
| Crest factor | 3:1 |
| BYPASS | |
| Rated voltage | voltage selected |
| Voltage tolerance | ± 15% |
| Rated frequency | frequency selected |
| Frequency tolerance | ± 2% |
| EFFICIENCY | |
| Online mode | up to 91% |
| Eco Mode | 97% |
| ENVIRONMENT | |
| Operating ambient temperature | 0 °C to + 40 °C (15 °C to 25 °C for best battery life) |
| Relative humidity | 0% - 90% without condensation |
| Maximum altitude (above sea level) | 1000 m without de-rating (maximum 3000 m) |
| Mod-System MODULYS MC | |
| Mod-MC 4XX - 4 slots W x D x H | 550 x 625 x 760 mm |
| Mod-MC 6XX - 6 slots W x D x H | 550 x 625 x 1026 mm |
| Mod-MC 9XX - 9 slots W x D x H | 550 x 625 x 1425 mm |
| Weight | depending on the configuration |
| Degree of protection | IP20 |
| Acoustic level at 1 m (ISO 3746) | < 52 dBA (Mod-MC 4XX) < 60 dBA (Mod-MC 6XX and Mod-MC 9XX) |
| Heat dissipation | 530 W (Mod-MC 4XX) 700 W (Mod-MC 6XX) 2090 W (Mod-MC 9XX) |
| Connections | terminals |
| STANDARDS | |
| Safety | EN 62040-1 |
| EMC | IEC 62040-2 |
| Performance | EN 62040-3 |
| Product declaration | CE |

An adaptable system



Standard electrical features

- Separate bypass input.
- 4 dry contacts relay card.

Electrical options

- Galvanic isolation transformer.
- Temperature sensor.

Standard communication features

- 2 slots for communication options.
- MODBUS/JBUS RTU.

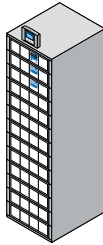
Communication options

- Dry-contact interface.
- Remote mimic panel.
- **NET VISION**: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

MODULYS EB

Range

Mod-EB 12XX
expandable from 9 to 24 kVA



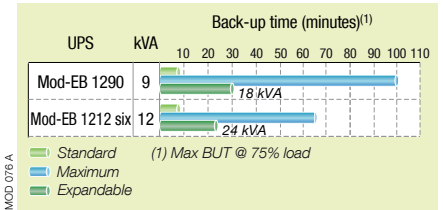
MOD 073 A

| Model | EB 1290 | EB 1212 six |
|--------------|-------------|-------------|
| Mod-Power | 2 x 4500 VA | 2 x 6000 VA |
| Battery pack | 6 | 8 |

Technical data

| MODULYS EB | | |
|---|---|------|
| MOD-POWER | | |
| Sn [VA] | 4500 | 6000 |
| Pn [W] | 3150 | 4200 |
| Input/output | 1/1, 3/1 | |
| INPUT | | |
| Rated voltage | 230 V (1ph + N) or 400 V (3ph + N) | |
| Voltage tolerance | ± 20% (up to -30% at 70% nominal load) | |
| Rated frequency | 50/60 Hz | |
| Frequency tolerance | ± 10% | |
| Power factor / THDI | > 0.99/6% | |
| OUTPUT | | |
| Rated voltage | 230 V (1ph + N) | |
| Voltage tolerance | ± 3% (can be set 208/220/240 V) | |
| Rated frequency | 50/60 Hz | |
| Frequency tolerance | ± 2% (± 0.1% autonomous frequency) | |
| Overload | 110% for 1 minute, 130% for 10 seconds, 200% for 5 cycles | |
| Crest factor | 3:1 | |
| BYPASS | | |
| Rated voltage | voltage selected | |
| Voltage tolerance | ± 15% | |
| Rated frequency | frequency selected | |
| Frequency tolerance | ± 2% | |
| EFFICIENCY | | |
| Online mode | up to 91% | |
| Eco Mode | 97% | |
| ENVIRONMENT | | |
| Operating ambient temperature | from 0 °C up to +40 °C (from 15 °C to 25 °C for maximum battery life) | |
| Relative humidity | 0% - 90% without condensation | |
| Maximum altitude | 1000 m without derating (max. 3000 m) | |
| Mod-System MODULYS EB | | |
| Mod-EB 12XX (12 slots) - Dimensions W x D x H | 550 x 625 x 1824 mm | |
| Weight | depending on the configuration | |
| Degree of protection | IP20 | |
| Acoustic level at 1 m (ISO 3746) | < 60 dBA | |
| Heat dissipation | 2080 W | |
| Connections | terminals | |
| STANDARDS | | |
| Safety | EN 62040-1 | |
| EMC | IEC 62040-2 | |
| Performance | EN 62040-3 | |
| Product declaration | CE | |

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