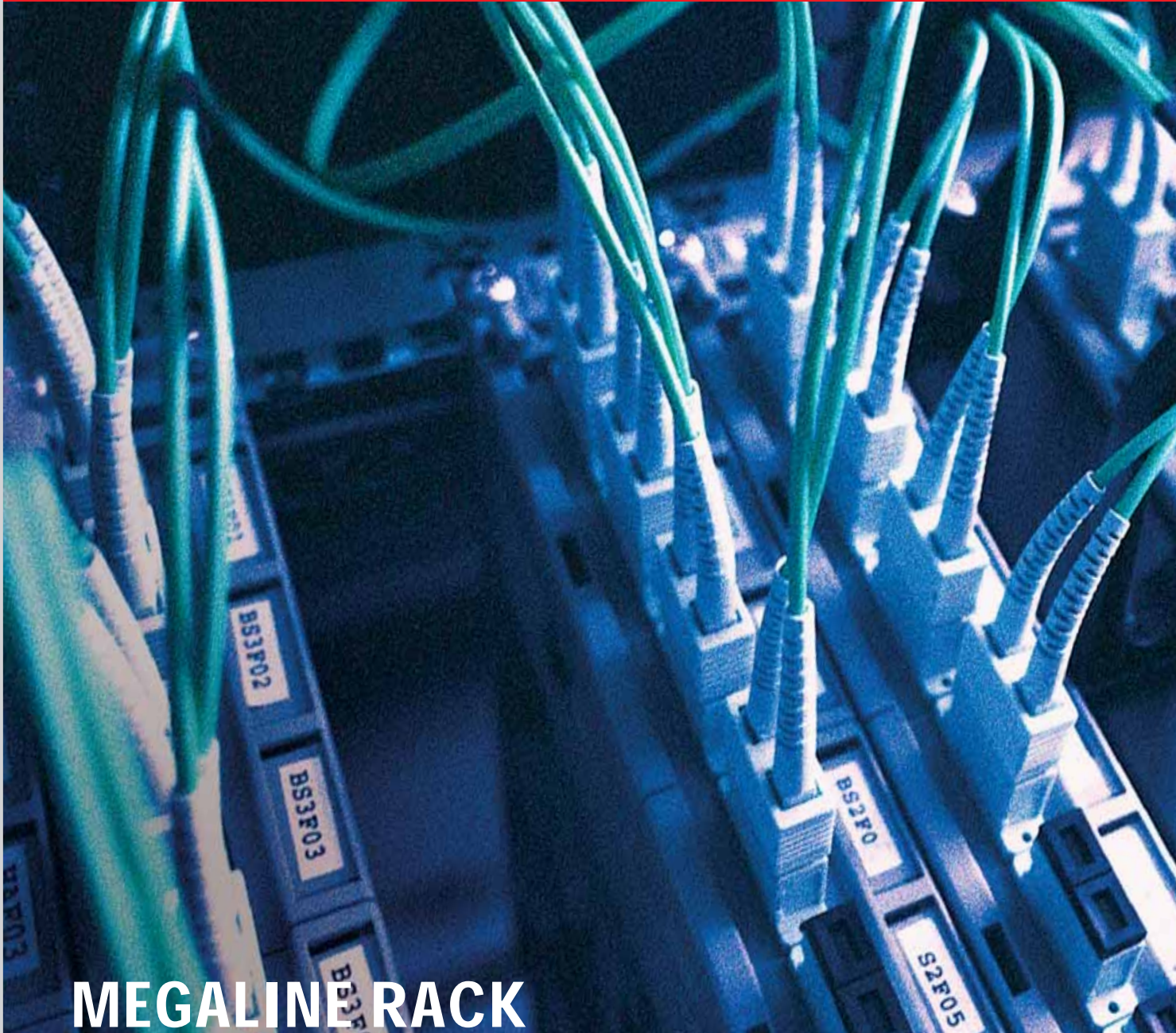


MODULAR ONLINE VFI



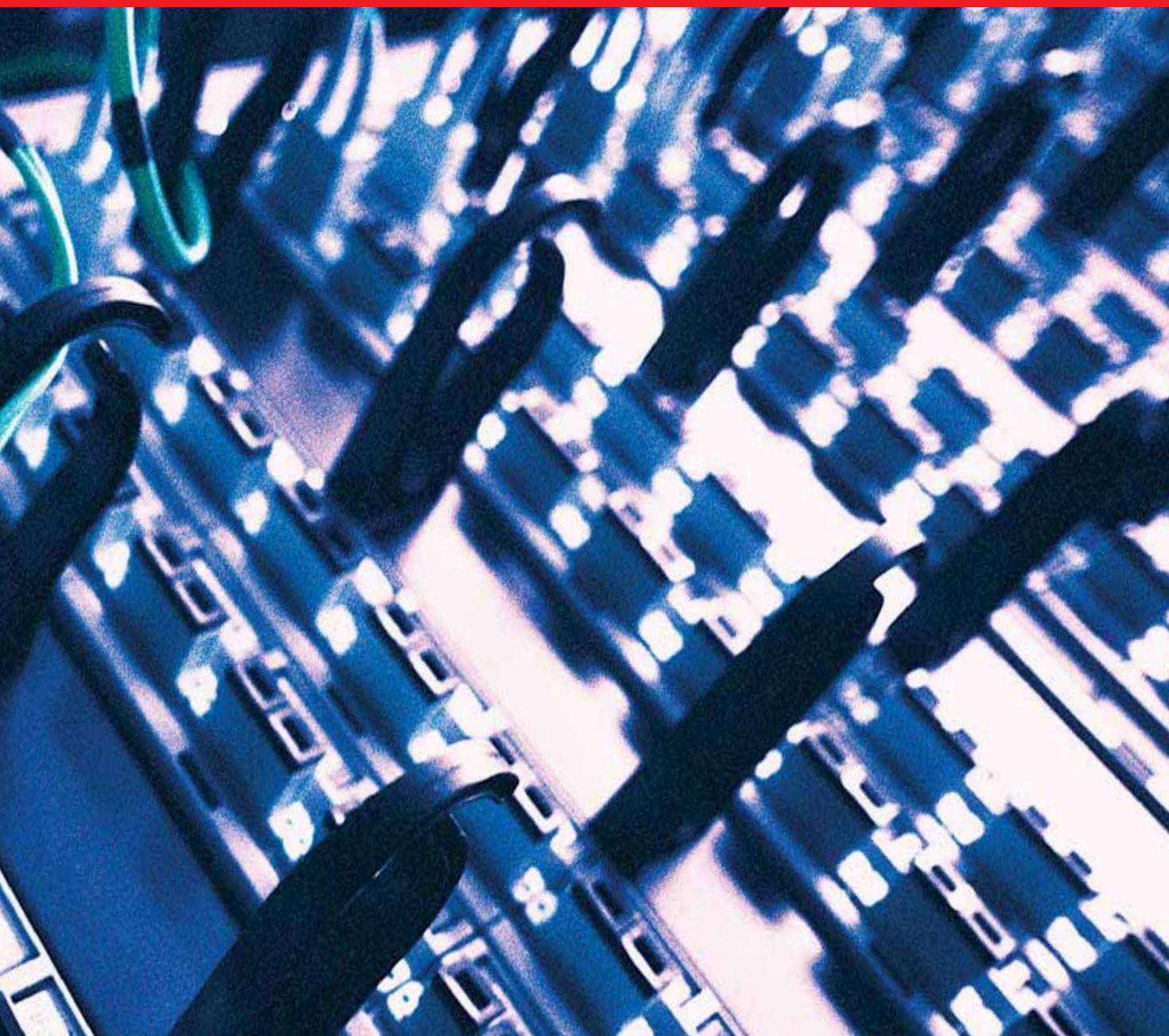
MEGALINE RACK

for networking applications

Local networks, LAN, WAN and structured cabling are all terms that are becoming more and more familiar, even for people who aren't in the industry. In recent years, local networks and distributed data processing systems have become increasingly widespread: this need for total integration has given rise to structured cabling, meaning high costs for businesses; these investments must be carefully targeted to ensure optimum efficiency, reliability, flexibility and the best transmission speed for the overall system.

MetaSystem's range of 19" rack UPS is an excellent solution for any application, offering considerable benefits in terms of their compact size, linearity and design, so all the equipment can be housed in a single cabinet, limiting the amount of floor space taken up.

Solutions in the standard 19" rack format are very useful for protecting the electronic apparatus used in industry, the electro-medical field or in Information & Communication Technology, where



installing equipment in rack cabinets is increasingly the norm, as seen with the latest servers, interconnection cabinets, or equipment used for system measurement and control.

Reliability has always been an important issue, and becomes even more so in a context where the complexity of interconnection systems is such that a whole company can find itself at a standstill, simply because of a bad contact.





Not only do the MegaLine Racks have the same features as the best on line double conversion UPS, they also offer the best performance and functions for their category in a 19" rack format.

The MegaLine Rack family includes 4 products, covering a rated power range starting at 1250 VA up to 5000 VA in steps of 1250 VA. The main characteristics of these products put them in a class of their own in the market: Scalability, Modularity and Redundancy.

Scalability means the power of each model can be upgraded at any time (except for the MegaLine Rack 5000), without the need for special settings or calibration: the UPS automatically adjusts to its new configuration as soon as it recognises the extra power board.

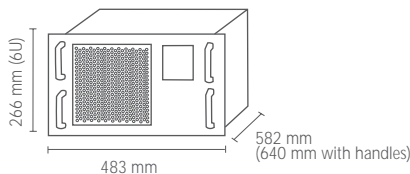
Modularity means the UPS is made up of power modules that are identical to one another, each one providing

1250 VA. As they are connected up in a parallel formation, they pool their resources entirely.

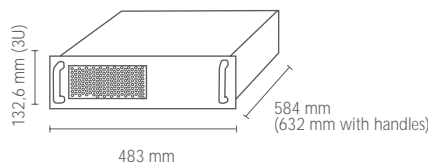
In actual fact, all the critical circuits in the UPS (PFC, inverter, battery charger, booster etc.) are repeated on each board. Redundancy is a direct outcome of modularity: the modules are connected in parallel so failure of one of them will not endanger the correct working of the uninterruptible power supply: the faults will be signalled but the UPS will carry on supplying output power.

The MegaLine range has a large, 4-line backlit display, with both letters and numbers, with a semaphore coded display panel and an RS232 port and two contact ports on the back of the unit. MegaLine Rack can also provide extended runtimes by adding extra battery kits into the special battery rack cabinet (holds up to a maximum of 4 KB MegaLine/2).

MegaLine Rack



Battery MegaLine Rack



Cables for connecting to the MegaLine Rack are supplied



| MegaLine Rack accessories | Description | Part number |
|---------------------------|--|-------------|
| PW 1250 | Power upgrade | P4938M |
| BATTERY MegaLine Rack | Extra battery cabinet in 19" rack format | P4948M |
| KB MegaLine/1 | Runtime extension kit for inverter cabinet | P49273 |
| KB MegaLine/2 | Runtime extension kit for battery cabinet | P49274 |
| BP/1 | Manual bypass for single cabinet units | P4936 |
| CB 36 | Battery charger | P49440 |
| Relay Interface Kit | Relay contacts hardware support | P4920A |
| HF1 | Remote control for switch on and off | P4930 |

For more details on hardware and software accessories, go to pages 68 - 73

| Model | MegaLine Rack 1250 | MegaLine Rack 2500 | MegaLine Rack 3750 | MegaLine Rack 5000 |
|--|---|--------------------|--------------------|--------------------|
| SPECIFICATIONS | | | | |
| Nominal Power [VA] | 1250 | 2500 | 3750 | 5000 |
| Active Power [W] | 875 | 1750 | 2625 | 3500 |
| Max Power Scalability [VA] | 5000 | | | |
| Max Power Scalability [W] | 3500 | | | |
| Technology | On line double conversion (VFI) | | | |
| UPS Architecture | Modular, Scalable, Redundant N+X with 1250 VA power boards, contained in a cabinet | | | |
| INPUT | | | | |
| Input Voltage [V] | 230 | | | |
| Input Voltage Range [V] | 184 ÷ 264 @ 100% load | | | |
| Minimum Operating Voltage (on mains power) [V] | 100 @ 50% load | | | |
| Input Current THD | < 3% | | | |
| Input Power Factor | > 0.99 from 20% load | | | |
| Input Frequency [Hz] | 50 / 60 ± 2% autosensing | | | |
| OUTPUT | | | | |
| Output Voltage [V] | 230 ± 1% | | | |
| Output Frequency [Hz] | 50 / 60 synchronized | | | |
| Output Voltage THD | < 1% with non-linear load | | | |
| Wave form | Sinusoidal | | | |
| Crest Factor | 3.5 : 1 | | | |
| Efficiency on mains (AC/AC on line) | 92% @ 100% load | | | |
| Overload capacity | 300% for 1 s - 200% for 5 s - 150% for 30 s | | | |
| BATTERIES | | | | |
| Runtime @ 50% load [min] | 20 | | | |
| Runtime @ 80% load [min] | 11 | | | |
| Runtime Extendibility | Yes | | | |
| GENERAL SPECIFICATIONS | | | | |
| Bypass | Static and electromechanical, internally synchronized, automatic (for overload or anomaly) | | | |
| Signals and Alarms | Wide 4-line alphanumeric display, multicolour status indicator, acoustic signalling | | | |
| Communication Ports | N.1 RS232 port, N.2 Logic level ports | | | |
| UPS Communicator Software | Download free of charge from the website (www.metasystem.it) | | | |
| Protection | Electronic protection against overloads, short circuits and excessive battery discharge Operation blocked at end of runtime Sensor for correct neutral connection Inrush limitation when switching on Back-feed protection (electrical insulation for the safety of the input plug when running in battery mode) EPO contact (emergency power off) | | | |
| Input/Output Connectivity | Schuko / Screw connector with 4-socket multiple extension cord (Italian/Schuko) | | | |
| MECHANICAL SPECIFICATIONS | | | | |
| Net Weight [Kg] | 23.5 | 34 | 43 | 53 |
| Dimensions (W x H x D) [mm] | 483 x 266(6U) x 582 | | | |
| Power Modules Installed | 1 | 2 | 3 | 4 |
| Power Scalability Slots Available | 3 | 2 | 1 | - |
| Battery Kits Installed | 1 | 2 | 3 | 4 |
| Runtime Extension Slots Available | 3 | 2 | 1 | - |
| ENVIRONMENTAL DATA | | | | |
| Working Temperature [°C] | 0 ÷ 40 | | | |
| Relative Humidity | 20% ÷ 80% non condensing | | | |
| Acoustic Noise @ 1 m [dBA] | < 40 | | | |
| STANDARDS | | | | |
| Standards | EN 62040-1-1, EN 50091-2, EN 62040-3 | | | |
| GUARANTEE | | | | |
| Guarantee | 2 years, including batteries | | | |
| Item Code | P4482N | P4483N | P4484N | P4485N |