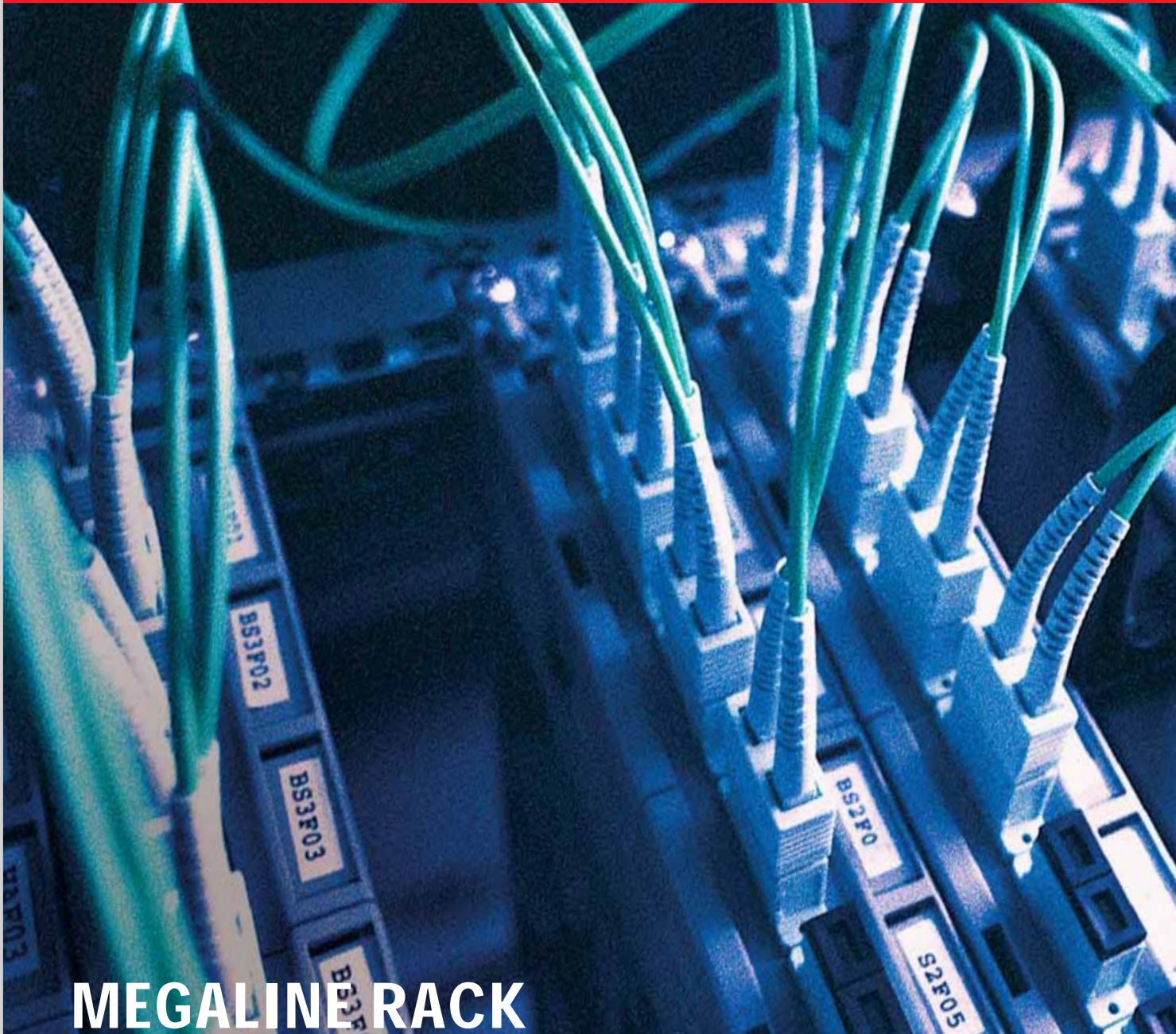


MODULAR ONLINE VFI



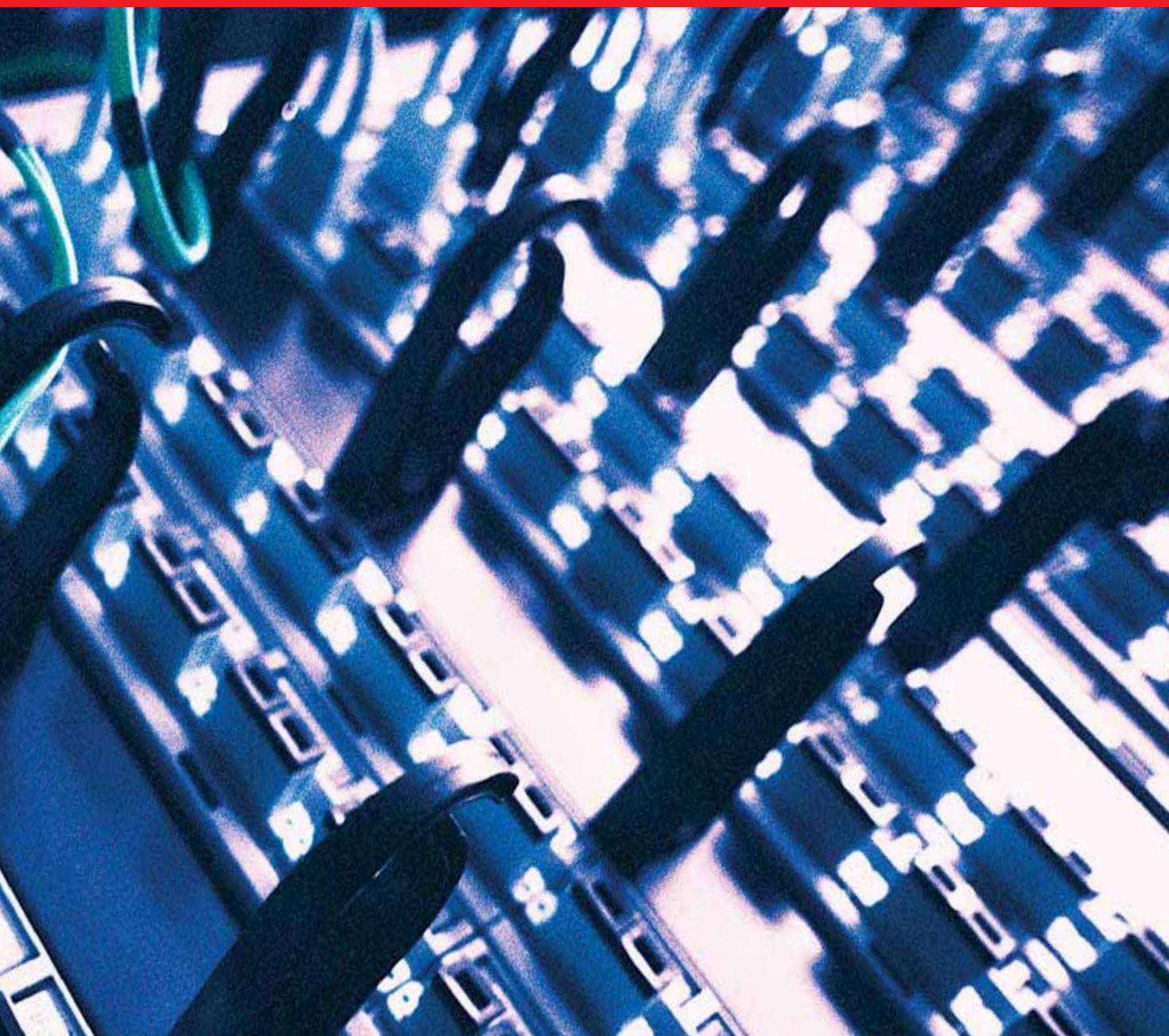
MEGALINE RACK

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.

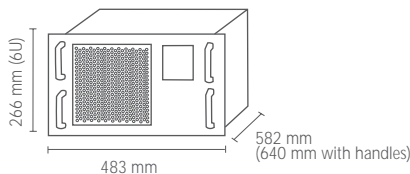
Modularity means the UPS is made up of power modules that are identical to one another, each one providing

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

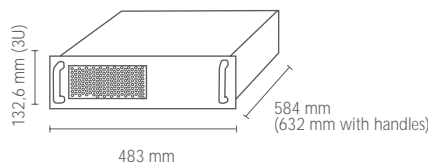
In actual fact, all the critical circuits in the UPS (PFC, inverter, battery charger, booster etc.) are repeated on each board. Redundancy is a direct outcome of modularity: the modules are connected in parallel so failure of one of them will not endanger the correct working of the uninterruptible power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