

# MEGALINE

UPS  
MODULAR  
SINGLE-PHASE  
from 1250 to 10000 VA



GLOBAL SPECIALIST IN ELECTRICAL  
AND DIGITAL BUILDING INFRASTRUCTURES



# MEGALINE

**Redundant modular UPS,  
expandable up to 10 kVA  
with the best performance  
levels in their category**

AVAILABLE IN THREE VERSIONS:

- SINGLE CABINET
- DOUBLE CABINET
- 19" RACK

All models have a configurable microprocessor control card, an LCD display unit, 1250 VA power modules and battery kits (BK) containing three 9 Ah batteries.

## SINGLE PHASE MODULAR UPS

The single cabinet and 19" rack versions distribute powers of 1250 to 5000 VA, and can take up to 4 power modules 4 battery kits. To increase the backup time, additional batteries can be added in dedicated cabinets, which are easy to connect.

The range also includes double cabinets. They consist of 2 cabinets: 1 power cabinet and 1 battery cabinet. The former houses up to eight 1250 VA modules, reaching a maximum power of 10 kVA.

The latter can take up to 10 battery kits and an additional charger. To increase the backup time still further, other identical battery cabinets can be added.



# MEGALINE

## Modular UPS -Single-phase On-line double conversion VFI

### Long backup time table for single cabinet and double cabinet versions

Model	Power	Backup time	Number of cabinets and dimensions W x H x D (mm)	Cat. Nos.
<b>Single cabinet</b>				
	1.250 VA	30'	1x (270 x 475 x 570)	3 103 73
	1.250 VA	52'	1x (270 x 475 x 570)	3 103 74
	1.250 VA	75'	1x (270 x 475 x 570)	3 103 75
	2.500 VA	22'	1x (270 x 475 x 570)	3 103 76
	2.500 VA	30'	2x (270 x 475 x 570)	3 103 77
	2.500 VA	52'	2x (270 x 475 x 570)	3 103 52 + 3 107 78
	2.500 VA	63'	2x (270 x 475 x 570)	3 103 52 + 3 107 79
	3.750 VA	18'	1x (270 x 475 x 570)	3 103 78
	3.750 VA	29'	2x (270 x 475 x 570)	3 103 54 + 3 107 77
	3.750 VA	44'	2x (270 x 475 x 570)	3 103 54 + 3 107 79
	3.750 VA	67'	2x (270 x 475 x 570)	3 103 54 + 3 107 82
	5.000 VA	22'	2x (270 x 475 x 570)	3 103 56 + 3 107 76
	5.000 VA	30'	2x (270 x 475 x 570)	3 103 56 + 3 107 78
	5.000 VA	46'	2x (270 x 475 x 570)	3 103 56 + 3 107 81
	5.000 VA	63'	2x (270 x 475 x 570)	3 103 56 + 3 107 84
<b>Double cabinet</b>				
	5.000 VA	22'	2x (270 x 475 x 570)	3 103 60 + 3 107 80
	5.000 VA	30'	2x (270 x 475 x 570)	3 103 60 + 3 107 82
	5.000 VA	46'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 75
	5.000 VA	63'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 78
	6.250 VA	20'	2x (270 x 475 x 570)	3 103 63 + 3 107 81
	6.250 VA	30'	2x (270 x 475 x 570)	3 103 63 + 3 107 84
	6.250 VA	47'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 78
	6.250 VA	60'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 81
	7.500 VA	18'	2x (270 x 475 x 570)	3 103 66 + 3 107 82
	7.500 VA	30'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 76
	7.500 VA	48'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 81
	7.500 VA	59'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 (x2)
	8.750 VA	20'	2x (270 x 475 x 570)	3 103 69 + 3 107 84
	8.750 VA	30'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 78
	8.750 VA	45'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 83
	8.750 VA	61'	4x (270 x 475 x 570)*	3 103 69 + 3 107 84 (x2) + 3 107 78
	10.000 VA	22'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 76
	10.000 VA	30'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 80
	10.000 VA	46'	4x (270 x 475 x 570)*	3 103 72 + 3 107 84 (x2) + 3 107 76
	10.000 VA	60'	4x (270 x 475 x 570)*	3 103 72 + 3 107 84 (x2) + 3 107 81

\* This configuration requires the use of a Y cable Cat. No. 3 108 60. The number of cables required is equal to the total number of cabinets minus 2.

### Long backup time table rack version

Model	Power	Backup time	Number of cabinets and dimensions W x H x D (mm)	Cat. Nos.
<b>Rack</b>				
	1.250 VA	30'	1 (6U)	3 103 87
	1.250 VA	52'	1 (6U)	3 103 88
	1.250 VA	75'	1 (6U)	3 103 89
	2.500 VA	22'	1 (6U)	3 103 90
	2.500 VA	30'	1 (6U)	3 103 91
	2.500 VA	52'	2 (6U + 3U)	3 103 81 + 3 107 99
	2.500 VA	63'	3 (6U + 2x3U)	3 103 81 + 3 107 99 + 3 107 96
	3.750 VA	18'	1 (6U)	3 103 92
	3.750 VA	29'	2 (6U + 3U)	3 103 83 + 3 107 98
	3.750 VA	44'	3 (6U + 2x3U)	3 103 83 + 3 107 99 + 3 107 96
	3.750 VA	67'	3 (6U + 2x3U)	3 103 83 + 3 107 99 (x2)
	5.000 VA	22'	2 (6U + 3U)	3 103 85 + 3 107 97
	5.000 VA	30'	2 (6U + 3U)	3 103 85 + 3 107 99
	5.000 VA	46'	3 (6U + 2x3U)	3 103 85 + 3 107 99 + 3 107 98
	5.000 VA	63'	4 (6U + 3x3U)	3 103 85 + 3 107 97 + 3 107 99 (x2)
			6U= 483 x 266 x 582 3U= 483 x 133x 584	

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

# MEGALINE

## Modular UPS -Single-phase On-line double conversion VFI



3 103 60 + 3 107 78



3 108 62



3 107 85



3 108 35

Pack	Cat. Nos.	Single cabinet - without batteries			
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets
1	3 103 51	1250	875	-	1
1	3 103 53	2500	1750	-	1
1	3 103 55	3750	2625	-	1
1	3 103 57	5000	3500	-	1

Pack	Cat. Nos.	Double cabinet - without batteries			
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets
1	3 103 60 + 3 108 59	5000	3500	-	2
1	3 103 63 + 3 108 59	6250	4375	-	2
1	3 103 66 + 3 108 59	7500	5250	-	2
1	3 103 69 + 3 108 59	8750	6125	-	2
1	3 103 72 + 3 108 59	10000	7000	-	2

Pack	Cat. Nos.	Single cabinet (German standard)				
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)
1	3 103 50	1250	875	13	1	23,5
1	3 103 52	2500	1750	13	1	34
1	3 103 54	3750	2625	13	1	43
1	3 103 56	5000	3500	13	1	53

Pack	Cat. Nos.	Double cabinet				
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)
1	3 103 60 + 3 107 78	5000	3500	13	2	24+50
1	3 103 63 + 3 107 79	6250	4375	13	2	27+58
1	3 103 66 + 3 107 80	7500	5250	13	2	29+65
1	3 103 69 + 3 107 81	8750	6125	13	2	32+73
1	3 103 72 + 3 107 82	10000	7000	13	2	34+80

Pack	Cat. Nos.	Single cabinet (French standard)				
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)
1	3 103 42	1250	875	13	1	23.5
1	3 103 43	2500	1750	13	1	34
1	3 103 44	3750	2625	13	1	43
1	3 103 45	5000	3500	13	1	53

Pack	Cat. Nos.	Single cabinet (British standard)				
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)
1	3 103 46	1250	875	13	1	23.5
1	3 103 47	2500	1750	13	1	34
1	3 103 48	3750	2625	13	1	43
1	3 103 49	5000	3500	13	1	53

Pack	Cat. Nos.	Battery extensions	
		Description	
1	3 107 75	Cabinet with 1 BK	
1	3 107 76	Cabinet with 2 BK	
1	3 107 77	Cabinet with 3 BK	
1	3 107 78	Cabinet with 4 BK	
1	3 107 79	Cabinet with 5 BK	
1	3 107 80	Cabinet with 6 BK	
1	3 107 81	Cabinet with 7 BK	
1	3 107 82	Cabinet with 8 BK	
1	3 107 83	Cabinet with 9 BK	
1	3 107 84	Cabinet with 10 BK	

Pack	Cat. Nos.	Battery extensions with charger	
		Description	
1	3 107 86	Cabinet with 1 BK with charger	
1	3 107 87	Cabinet with 2 BK with charger	
1	3 107 88	Cabinet with 3 BK with charger	
1	3 107 89	Cabinet with 4 BK with charger	
1	3 107 90	Cabinet with 5 BK with charger	
1	3 107 91	Cabinet with 6 BK with charger	
1	3 107 92	Cabinet with 7 BK with charger	
1	3 107 93	Cabinet with 8 BK with charger	
1	3 107 94	Cabinet with 9 BK with charger	
1	3 107 95	Cabinet with 10 BK with charger	

Pack	Cat. Nos.	Accessories	
		Description	
1	3 108 35	Power module (PW 1250)	
1	3 108 57	Single cabinet backup extension (MegaLine BK/1)	
1	3 108 58	Double cabinet backup extension (MegaLine BK/2)	
1	3 108 59	Empty battery cabinet	
1	3 108 60	Y cable for connecting a second additional battery cabinet	
1	3 108 61	Battery cabinet extension kit for tower configuration (PL MegaLine cable)	
1	3 108 62	Manual bypass for single cabinet (BP/1)	
1	3 108 63	Manual bypass for double cabinet (BP/2)	
1	3 107 85	Additional charger (CB 36)	
1	3 109 72	Relay interface kit	

**NOTE:** The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

# MEGALINE

## Modular UPS -Single-phase On-line double conversion VFI

### Characteristics

	Single cabinet				Double cabinet				
<b>General characteristics</b>	3 103 42 3 103 46 3 103 50	3 103 43 3 103 47 3 103 52	3 103 44 3 103 48 3 103 54	3 103 45 3 103 49 3 103 56	3 103 60 + 3 107 78	3 103 63 + 3 107 79	3 103 66 + 3 107 80	3 103 69 + 3 107 81	3 103 72 + 3 107 82
Nominal power (VA)	1250	2500	3750	5000	5000	6250	7500	8750	10000
Active power (W)	875	1750	2625	3500	3500	4375	5250	6125	7000
Max. expansion (VA)	5000				10000				
Max. expansion (W)	3500				7000				
Technology	On-line double conversion VFI-SS-111								
Architecture	Modular, expandable, N+X redundant with 1250 VA power cards, contained in a single cabinet								
<b>Input characteristics</b>									
Nominal input voltage	230 V								
Input voltage range	184 V to 264 V at 100% load								
Minimum operating voltage	100 V at 50% load								
THD of input current	< 3%								
Input power factor	> 0.99 at 20% load								
Input frequency	50 Hz/60 Hz ± 2% autosensing								
<b>Output characteristics</b>									
Output voltage	230 V ± 1%								
Output frequency	50 Hz/60 Hz synchronised								
THD of output voltage	< 1% with non-linear load								
Waveform	Sinusoidal								
Peak factor	3:1								
Efficiency	up to 92%								
Overload capacity	300% for 1 s – 200% for 5 s – 150% for 30 s								
<b>Backup time</b>									
Backup time (min)	13								
Extension of backup time	Yes								
<b>Equipment</b>									
Bypass	Automatic, internally synchronised, static and electromechanical (for overloads and operating problems)								
Signalling and alarms	Wide screen with 4 alphanumeric lines, multi-coloured status indicator, audible signalling								
Communication ports	1 RS 232 port, 2 logic level ports								
Communicator UPS software	Can be downloaded free of charge (after requesting an activation code)								
Protection	Electronic devices for protection against overloads, short-circuits and excessive battery discharge. Operation stops at end of backup time. Inrush current limiter on start-up. Sensor for correct neutral switching. Back-feed protection (electrical safety insulation of the input plug during battery-based operation). EPO (emergency power off) contact.								
I/O mains connection	German standard/terminal connector with universal multi-socket outlet (Italian/German standard)								
<b>Mechanical characteristics</b>									
Net weight (kg)	23,5	34	43	53	24 + 50	26,5+57,5	29 + 65	31,5+72,5	34 + 80
Dimensions (H x W x D) (mm)	475 x 270 x 570				2 x 475 x 270 x 570				
Installed power cards	1	2	3	4	4	5	6	7	8
Free power expansion slots	3	2	1	-	4	3	2	1	-
Installed battery kits	1	2	3	4	4	5	6	7	8
Free backup time extension slots	3	2	1	-	6	5	4	3	2
<b>Ambient conditions</b>									
Ambient operating temperature (°C)	0 to 40								
Protection index	IP 21								
Relative humidity (%)	20 to 80								
Noise at 1 m (dBA)	< 40								
<b>Certifications</b>									
Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3								

# MEGALINE RACK

## Modular UPS -Single-phase On-line double conversion VFI



3 103 85



3 107 96



3 108 62



3 107 85



3 109 73

- Wide input voltage and frequency range
- Operating frequency: 50 or 60 Hz with auto-recognition
- 50-60 Hz frequency conversion in both directions
- Extension of the input frequency range for operation with gensets
- Eco mode (energy-saving) operation
- Load waiting mode operation (protection on request)

- Output voltage can be adjusted in 1 volt steps from front panel
- Low noise
- Internal and external temperature measurement
- Ventilation control according to temperature and load
- Designed for remote emergency stop

Pack	Cat. Nos.	RACKS (German standard)				
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)
1	3 103 79	1250	875	13	1	23.5
1	3 103 81	2500	1750	13	1	34
1	3 103 83	3750	2625	13	1	43
1	3 103 85	5000	3500	13	1	53

Pack	Cat. Nos.	RACKS (French standard)				
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)
1	3 103 34	1250	875	13	1	23.5
1	3 103 35	2500	1750	13	1	34
1	3 103 36	3750	2625	13	1	43
1	3 103 37	5000	3500	13	1	53

Pack	Cat. Nos.	RACKS (British standard)				
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)
1	3 103 38	1250	875	13	1	23.5
1	3 103 39	2500	1750	13	1	34
1	3 103 40	3750	2625	13	1	43
1	3 103 41	5000	3500	13	1	53

Pack	Cat. Nos.	RACKS - without batteries			
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets
1	3 103 80	1250	875	-	1
1	3 103 82	2500	1750	-	1
1	3 103 84	3750	2625	-	1
1	3 103 86	5000	3500	-	1

Pack	Cat. Nos.	Backup time extensions		
		Nominal power (VA)	Additional BK	Expansion (min)
1	3 103 87	1250	1	30
1	3 103 88	1250	2	52
1	3 103 89	1250	3	75
1	3 103 90	2500	1	22
1	3 103 91	2500	2	30
1	3 103 92	3750	1	18

### Battery expansions for Rack UPS

Pack	Cat. Nos.	Description
1	3 107 96	Rack with 1 BK
1	3 107 97	Rack with 2 BK
1	3 107 98	Rack with 3 BK
1	3 107 99	Rack with 4 BK
1	3 108 00	Rack with 1 BK with charger
1	3 108 01	Rack with 2 BK with charger
1	3 108 02	Rack with 3 BK with charger
1	3 108 03	Rack with 4 BK with charger

Pack	Cat. Nos.	Description
1	3 108 35	Power module (PW 1250)
1	3 108 04	Empty battery rack cabinet
1	3 108 62	Manual bypass for single rack (BP/1)
1	3 107 85	Additional charger (CB 36)
1	3 109 72	Relay interface kit
1	3 109 73	Telescopic runner kit for 6U rack

**NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.**

# MEGALINE RACK

## Modular UPS -Single-phase On-line double conversion VFI

### Characteristics

General characteristics	3 103 34 3 103 38 3 103 79	3 103 35 3 103 39 3 103 81	3 103 36 3 103 40 3 103 83	3 103 37 3 103 41 3 103 85
Nominal power (VA)	1250	2500	3750	5000
Active power (W)	875	1750	2625	3500
Max. expansion (VA)	5000			
Max. expansion (W)	3500			
Technology	On line doppia conversione (VFI-SS-111)			
Architecture	Modular, expandable, N+X redundant with 1250 VA power cards, contained in a single rack			
<b>Input characteristics</b>				
Nominal input voltage	230 V			
Input voltage range	184 V to 264 V at 100% load			
Minimum operating voltage via mains	100 V at 50% load			
THD of input current	< 3%			
Input power factor	> 0.99 at 20% load			
Input frequency	50 Hz/60 Hz ± 2% autosensing			
<b>Output characteristics</b>				
Output voltage	230 V ± 1%			
Output frequency	50 Hz/60 Hz synchronised			
THD of output voltage	< 1% with non-linear load			
Waveform	Sinusoidal			
Peak factor	3:1			
Efficiency	up to 92%			
Overload capacity	300% for 1 s – 200% for 5 s – 150% for 30 s			
<b>Backup time</b>				
Backup time (min)	13			
Extension of backup time	Yes			
<b>Equipment</b>				
Bypass	Automatic, internally synchronised, static and electromechanical (for overloads and operating problems).			
Signalling and alarms	Large screen with 4 alphanumeric lines, multi-coloured status indicator, audible signalling			
Communication ports	1 RS 232 port, 2 logic level ports			
Communicator UPS software	Can be downloaded free of charge (after requesting an activation code)			
Protection	Electronic devices for protection against overloads, short-circuits and excessive battery discharge. Operation stops at end of backup time. Inrush current limiter on start-up. Sensor for correct neutral switching. Back-feed protection (electrical safety insulation of the input plug during battery-based operation). EPO (emergency power off) contact			
I/O mains connection	German standard/terminal connector with universal multi-socket outlet (Italian/German standard)			
<b>Mechanical characteristics</b>				
Net weight (kg)	23,5	34	43	53
Dimensions (H x W x D) (mm)	266 x 483 x 582			
Installed power cards	1	2	3	4
Free power expansion slots	3	2	1	-
Installed battery kits	1	2	3	4
Free backup time extension slots	3	2	1	-
<b>Ambient conditions</b>				
Ambient operating temperature (°C)	0÷40			
Protection index	IP21			
Relative humidity (%)	20 to 80			
Noise at 1 m (dBA)	< 40			
<b>Certifications</b>				
Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3			



**World Headquarters and  
International Department**  
87045 Limoges Cedex - France  
☎ : + 33 (0) 5 55 06 87 87  
Fax : + 33 (0) 5 55 06 74 55

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