

MEGALINE

UPS
MODULAR
SINGLE-PHASE
from 1250 to 10000 VA



THE **GLOBAL SPECIALIST**
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES



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.

MEGALINE 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.



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Backup times for single cabinet and double cabinet versions

Model	Power	Backup time	Number of cabinets and dimensions W x H x D (mm)	Cat. Nos.
Single cabinet				
	1250 VA	30'	1x (270 x 475 x 570)	3 103 73
	1250 VA	52'	1x (270 x 475 x 570)	3 103 74
	1250 VA	75'	1x (270 x 475 x 570)	3 103 75
	2500 VA	22'	1x (270 x 475 x 570)	3 103 76
	2500 VA	30'	2x (270 x 475 x 570)	3 103 77
	2500 VA	52'	2x (270 x 475 x 570)	3 103 52 + 3 107 78
	2500 VA	63'	2x (270 x 475 x 570)	3 103 52 + 3 107 79
	3750 VA	18'	1x (270 x 475 x 570)	3 103 78
	3750 VA	29'	2x (270 x 475 x 570)	3 103 54 + 3 107 77
	3750 VA	44'	2x (270 x 475 x 570)	3 103 54 + 3 107 79
	3750 VA	67'	2x (270 x 475 x 570)	3 103 54 + 3 107 82
	5000 VA	22'	2x (270 x 475 x 570)	3 103 56 + 3 107 76
	5000 VA	30'	2x (270 x 475 x 570)	3 103 56 + 3 107 78
	5000 VA	46'	2x (270 x 475 x 570)	3 103 56 + 3 107 81
	5000 VA	63'	2x (270 x 475 x 570)	3 103 56 + 3 107 84
Double cabinet				
	5000 VA	22'	2x (270 x 475 x 570)	3 103 60 + 3 107 80
	5000 VA	30'	2x (270 x 475 x 570)	3 103 60 + 3 107 82
	5000 VA	46'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 75
	5000 VA	63'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 78
	6250 VA	20'	2x (270 x 475 x 570)	3 103 63 + 3 107 81
	6250 VA	30'	2x (270 x 475 x 570)	3 103 63 + 3 107 84
	6250 VA	47'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 78
	6250 VA	60'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 81
	7500 VA	18'	2x (270 x 475 x 570)	3 103 66 + 3 107 82
	7500 VA	30'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 76
	7500 VA	48'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 81
	7500 VA	59'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 (x2)
	8750 VA	20'	2x (270 x 475 x 570)	3 103 69 + 3 107 84
	8750 VA	30'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 78
	8750 VA	45'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 83
	8750 VA	61'	4x (270 x 475 x 570)*	3 103 69 + 3 107 84 (x2) + 3 107 78
	10000 VA	22'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 76
	10000 VA	30'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 80
	10000 VA	46'	4x (270 x 475 x 570)*	3 103 72 + 3 107 84 (x2) + 3 107 76
	10000 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.

MEGALINE RACK

Backup times

Model	Power	Backup time	Number of racks and dimensions W x H x D (mm)	Cat. Nos.
Racks				
	1250 VA	30'	1 (6U)	3 103 87
	1250 VA	52'	1 (6U)	3 103 88
	1250 VA	75'	1 (6U)	3 103 89
	2500 VA	22'	1 (6U)	3 103 90
	2500 VA	30'	1 (6U)	3 103 91
	2500 VA	52'	2 (6U + 3U)	3 103 81 + 3 107 99
	2500 VA	63'	3 (6U + 2x3U)	3 103 81 + 3 107 99 + 3 107 96
	3750 VA	18'	1 (6U)	3 103 92
	3750 VA	29'	2 (6U + 3U)	3 103 83 + 3 107 98
	3750 VA	44'	3 (6U + 2x3U)	3 103 83 + 3 107 99 + 3 107 96
	3750 VA	67'	3 (6U + 3x3U)	3 103 83 + 3 107 99 (x2)
	5000 VA	22'	2 (6U + 3U)	3 103 85 + 3 107 97
	5000 VA	30'	2 (6U + 2x3U)	3 103 85 + 3 107 99
	5000 VA	46'	3 (6U + 3x3U)	3 103 85 + 3 107 99 + 3 107 98
	5000 VA	63'	4 (6U + 4x3U)	3 103 85 + 3 107 97 + 3 107 99 (x2)
			6U= 483 x 266 x 582 3U= 483 x 133x 584	

NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.

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Double conversion VFI single phase modular UPS



Pack	Cat. Nos.	SINGLE CABINET (German standard)				
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
	3 103 50	1250	875	13	1	23.5
	3 103 52	2500	1750	13	1	34
	3 103 54	3750	2625	13	1	43
	3 103 56	5000	3500	13	1	53

DOUBLE CABINET						
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
	3 103 60 + 3 107 78	5000	3500	13	2	24+50
	3 103 63 + 3 107 79	6250	4375	13	2	27+58
	3 103 66 + 3 107 80	7500	5250	13	2	29+65
	3 103 69 + 3 107 81	8250	6125	13	2	32+73
	3 103 72 + 3 107 82	10000	7000	13	2	34+80

SINGLE CABINET (French standard)						
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
	3 103 42	1250	875	13	1	23.5
	3 103 43	2500	1750	13	1	34
	3 103 44	3750	2625	13	1	43
	3 103 45	5000	3500	13	1	53

SINGLE CABINET (British standard)						
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
	3 103 46	1250	875	13	1	23.5
	3 103 47	2500	1750	13	1	34
	3 103 48	3750	2625	13	1	43
	3 103 49	5000	3500	13	1	53

Pack	Cat. Nos.	SINGLE CABINET - WITHOUT BATTERIES			
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS
	3 103 51	1250	875	-	1
	3 103 53	2500	1750	-	1
	3 103 55	3750	2625	-	1
	3 103 57	5000	3500	-	1

DOUBLE CABINET - WITHOUT BATTERIES					
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS
	3 103 60 + 3 108 59	5000	3500	-	2
	3 103 63 + 3 108 59	6250	4375	-	2
	3 103 66 + 3 108 59	7500	5250	-	2
	3 103 69 + 3 108 59	8250	6125	-	2
	3 103 72 + 3 108 59	10000	3500	-	2

BATTERY EXTENSIONS	
	DESCRIPTION
3 107 75	Cabinet with 1 BK
3 107 76	Cabinet with 2 BK
3 107 77	Cabinet with 3 BK
3 107 78	Cabinet with 4 BK
3 107 79	Cabinet with 5 BK
3 107 80	Cabinet with 6 BK
3 107 81	Cabinet with 7 BK
3 107 82	Cabinet with 8 BK
3 107 83	Cabinet with 9 BK
3 107 84	Cabinet with 10 BK

BATTERY EXTENSIONS WITH CHARGER	
	DESCRIPTION
3 107 86	Cabinet with 1 BK with charger
3 107 87	Cabinet with 2 BK with charger
3 107 88	Cabinet with 3 BK with charger
3 107 89	Cabinet with 4 BK with charger
3 107 90	Cabinet with 5 BK with charger
3 107 91	Cabinet with 6 BK with charger
3 107 92	Cabinet with 7 BK with charger
3 107 93	Cabinet with 8 BK with charger
3 107 94	Cabinet with 9 BK with charger
3 107 95	Cabinet with 10 BK with charger

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

NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.

MEGALINE

Double conversion VFI single phase modular UPS

Cat. Nos.	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	
	SINGLE CABINET				DOUBLE CABINET					
General characteristics										
	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								
Input characteristics										
	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								
Output characteristics										
	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	3.5:1								
	Efficiency	92% at 100% load								
	Permitted overload	300% for 1 s – 200% for 5 s – 150% for 30 s								
Backup time										
	Backup time (min)	13								
	Extension of backup time	Yes								
Equipment										
	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)								
Mechanical characteristics										
	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
Ambient conditions										
	Ambient operating temperature [°C]	0 to 40								
	Protection index	IP 21								
	Relative humidity [%]	20 to 80								
	Noise at 1 m (dBA)	< 40								
Certifications										
	Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3								

MEGALINE RACK

Modular single-phase UPS with 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)
	3 103 79	1250	875	13	1	23.5
	3 103 81	2500	1750	13	1	34
	3 103 83	3750	2625	13	1	43
	3 103 85	5000	3500	13	1	53

RACKS (French standard)						
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
	3 103 34	1250	875	13	1	23.5
	3 103 35	2500	1750	13	1	34
	3 103 36	3750	2625	13	1	43
	3 103 37	5000	3500	13	1	53

RACKS (British standard)						
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
	3 103 38	1250	875	13	1	23.5
	3 103 39	2500	1750	13	1	34
	3 103 40	3750	2625	13	1	43
	3 103 41	5000	3500	13	1	53

Pack	Cat. Nos.	BACKUP TIME EXTENSIONS		
		NOMINAL POWER (VA)	ADDITIONAL BK	EXPANSION (min)
	3 103 87	1250	1	30
	3 103 88	1250	2	52
	3 103 89	1250	3	75
	3 103 90	2500	1	22
	3 103 91	2500	2	30
	3 103 92	3750	1	18

BATTERY EXPANSIONS FOR RACK UPS	
	DESCRIPTION
3 107 96	Rack with 1 BK
3 107 97	Rack with 2 BK
3 107 98	Rack with 3 BK
3 107 99	Rack with 4 BK
3 108 00	Rack with 1 BK with charger
3 108 01	Rack with 2 BK with charger
3 108 02	Rack with 3 BK with charger
3 108 03	Rack with 4 BK with charger

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

NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.

MEGALINE RACK

Double conversion VFI single phase modular UPS

Cat. Nos.	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	
General characteristics					
	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 double conversion VFI-SS-111			
	Architecture	Modular, expandable, N+X redundant with 1250 VA power cards, contained in a single rack			
Input characteristics					
	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			
Output characteristics					
	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	3.5:1			
	Efficiency via mains	92% at 100% load			
	Permitted overload	300% for 1 s – 200% for 5 s – 150% for 30 s			
Backup time					
	Backup time (min)	13			
	Extension of backup time	Yes			
Equipment					
	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)			
Mechanical characteristics					
	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	-
Ambient conditions					
	Ambient operating temperature (°C)	0 to 40			
	Protection index	IP 21			
	Relative humidity (%)	20 to 80			
	Noise at 1 m (dBA)	< 40			
Certifications					
	Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3			



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