SIEMENS

MASTERGUARD
UPS
Series A-19
0.7 – 3.0 kVA

Series A-19

Modular On-line Protection for Data and Devices in Your 19 Inch Rack

The MASTERGUARD Series A-19 is the latest system of UPS-units and battery-packs for each 19-inch application

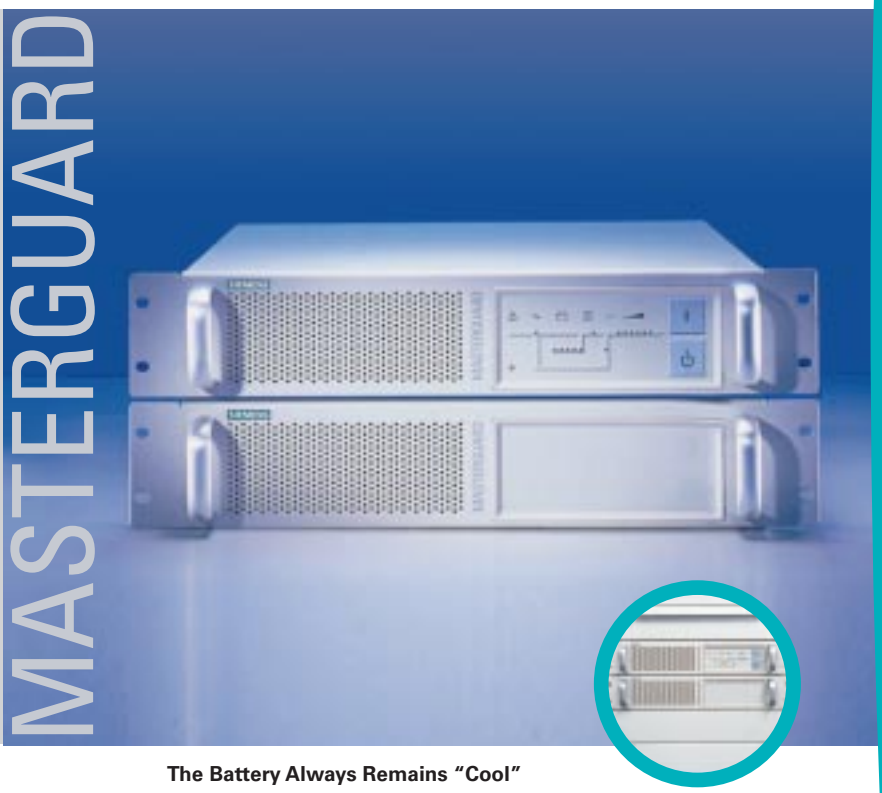
Your flexible way to provide real on-line UPS technology that can be adjusted to your demands

The Real On-line Technology

MASTERGUARD protects your systems from the dirtiest electrical power systems. This is because the on-line double conversion technology is the safest technology that you can find in the UPS market. MASTERGUARD eliminates all irregularities in the electrical power system. It makes brief power failures and disturbances harmless, while still having enough reserve to overcome longer power outages.

The Power Solution for the 19-inch Industrial Rack

The latest Series A-19 offers an output of up to 3000 VA with back-up times of up to one hour and more. A rack-mounting unit of 2 HU (= 88.9 mm) – with an output of for example 1000 VA - bridges a power failure of 6 minutes. If you need higher outputs or longer back-up times, the system can be expanded in 2 HU mounting units.

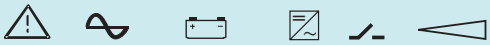


The Battery Always Remains "Cool"

The battery-packs are placed in separate metal racks and therefore are isolated from the airflow of the UPS. Stray heat in the main cubicle is kept away from the batteries enhancing battery life.

Service- and extension-friendly

Installation and removal of the UPS and the battery-pack is simple. There are complete installation solutions for 19-inch racks produced by Siemens, Knürr and Rittal and others. After pre fixing the sliders to the rack and to the withdrawable UPS chassis, the UPS unit is fixed in with a few screws. All terminal connections are plugged in.
When using telescopes the withdrawable UPS chassis fits simply into place and is fixed.
The system can easily be moved forward and backward in the telescopes or sliders when installed, for conversion or for repair.
For extending the battery standby time or in case of the need to exchange or renew batteries the new/replacement battery chassis can be connected to the system without isolating the load from the UPS power supply.

MASTERGUARD Series A-19		A 700-19	A 1000-19	A 2000-19	A 3000-19
Principle of operation		True on-line double conversion, 19-inch			
Battery extension/replacement		Possible with 19"-battery-pack when in operation			
Power one phase (cos φ = 0.7_{ind})		700 VA	1000 VA	2000 VA	3000 VA
Mains					
Voltage range		160 V to 276 V		184 V to 276 V	
Frequency and current		50/60 Hz ± 5%, Sinwave, Powerfactor 0.95			
Flexible Battery		Back-up time in minutes, valve regulated lead-acid battery			
Integral Battery	2 HU	6	6	–	–
1 Battery-pack mounting height	4 HU	–	27	11	5
2 Battery-pack mounting height	6 HU	–	51	24	16
3 Battery-pack mounting height	8 HU	–	–	40	23
4 Battery-pack mounting height	10 HU	–	–	57	34
5 Battery-pack mounting height	12 HU	–	–	75	45
Load					
Voltage, frequency		220V, **230V**, 240V ±3%, 50 or 60 Hz			
Harmonic distortion, lin./nonlin. load		< 4%/8%			
Unit, general data					
Automatic bypass		Integrated			
Data interface		RS 232 and individual contacts on SUB-D9, SNMP on RJ-45 (optional)			
Displays		 UPS-fault Mains Battery capacity INV Bypass Load			
Temperature in operation		+10° to +40° C, above 1500 m up to +35° C)[1]			
Mounting/installation					
Frontcover design		acc. to DIN 41494			
Required depth in 19" rack (front handle of UPS not included)	mm	480	480	510	510
Support in handling the cases		– L-frame rails – Telescope sliders (optional) each either for Knürr-19" or Rittal-19" racks			
Mains connection		IEC 320, 10A			IEC 320, 16A
Electrical load connection		4 x IEC 320, 10A			IEC 320, 16A
Dimensions and weights					
Required height for UPS	HU	2	2	2	2
Required height for battery-pack (BP)	HU	–	2	2	2
Weight of UPS/of suitable BP	kg/kg	15/–	18/21.5	12/27	13.5/27
Type data					
UPS unit		A 700-19 with integr. battery	A 1000-19 with integr. battery	A 2000-19	A 3000-19
Battery-pack (BP), suitable		–	BP A 1000-19	BP A 3000-19	BP A 3000-19
Maximum configuration		A 700-19	A 1000-19 + 2 BPs	A 2000-19 + 5 BPs	A 3000-19 + 5 BPs
Accessories		UPS Management Software, SNMP adapter, Multiplexer			

1) Above continously 25° C the battery service life is reduced by half with each 10° C temperature increase

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A Siemens Company

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