

# Three-phase/single-phase UPS

## Comet 3000 3:1

15/20/30 kVA

The functional UPS for protecting your sensitive application

### Guaranteed reliability at the most competitive price

- ▶ Its double conversion topology delivers high quality energy to the loads it is protecting.
- ▶ Its sophisticated design ensures total compliance with UPS standards.
- ▶ Equipped with manual and static bypasses, maintenance work can be carried out without disconnecting the power supply to the loads.

### Straightforward integration into the user's environment

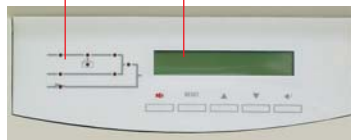
- ▶ Flexibility of installation due to secure and rapid connection via the front panel.
- ▶ Built-in battery protection (either integral to the UPS or in the battery enclosure)
- ▶ With its modern and robust design, the Comet 3000 3:1 is equally suitable for installation in an IT room or an equipment space.
- ▶ Straightforward single-phase distribution: no need for phase equalisation.



### The assurance of user satisfaction

- ▶ The simple and rapid-response LCD screen and associated mimic diagram display numerous electrical measurements and alarms, together with the operating status of the system.
- ▶ Remote relaying of alarms and shutdown of the IT system are automatically controlled by the communication cards.
- ▶ Maintenance times are reduced to a minimum by the proximity and experience of the After-Sales Department at MGE and the modular design of the unit.

LED overview LCD display



Full function display for simple operation

- ▶ Can be used in parallel for redundant configurations for high availability power

Protection for 30 to 40 workstations, ideal for:

- ▶ Computer and telecom systems
- ▶ Critical process and infrastructure systems



Oil refineries, offshore oil platforms, control rooms, circulating pumps for fluids, radio systems.

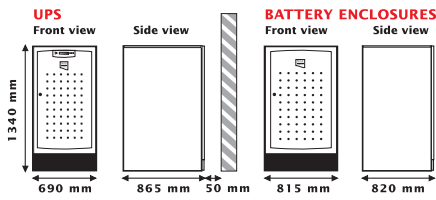


Servers, networked PCs, peripheral devices, workstations.

THE UNINTERRUPTIBLE POWER PROVIDER

**MGE**  
UPS SYSTEMS

# Three-phase/single-phase UPS - Comet 3000 3:1



## Principal functionalities

- ▶ Double conversion topology, Class VFI, conforming to IEC Standard 62040-3, with static contactor and manual bypass for maintenance
- ▶ LCD display screen and mimic diagram
- ▶ Automatic battery test facility
- ▶ Soft start for compatibility with generator sets
- ▶ Long backup time (up to 4 hours) with standard loads
- ▶ 1 U-Talk port for data connection, 1 slot available for current loop card

## Options

- ▶ Dry contacts card for relaying alarms
- ▶ Network Management Link pack for shutdown and supervision via the network

## MGE PowerServices™

- ▶ Commissioning: startup of your installation conforming to the manufacturer's specifications
- ▶ Maintenance contracts: a selection of suitable maintenance programmes
- ▶ Battery replacement: the optimum match of UPS and batteries
- ▶ Site audit: analysis and recommendations based on the technical environment

## Installation guide

Net weights of the UPS and battery enclosures (kg)

Nominal power outputs (kVA)	15 / 20 kVA	30 kVA
UPS only and XL version (for long backup time)	308	320
UPS + 5' integral batteries	437	487
UPS + 10' integral batteries	475	621
UPS + 15' integral batteries	505	
15' battery enclosures		555

## Installation guide

Choice of cables (in mm <sup>2</sup> )	15 kVA	20 kVA	30 kVA
Input for circuit 1	3x10	3x10	3x25
Inputs for circuit 2 and load	2x25	2x35	2x70
Batteries	Integrated	Integrated	Integrated except 15' / 2x 25
Choice of fuses: currents <sup>(1)</sup> in A			
Current for circuit 1 (with battery recharging)	26 A	37 A	52 A
Currents for circuit 2 and load	65 A	87 A	130 A
Battery currents	Integrated	Integrated	Integrated except 15'

1 - 3-phase 400 V and single-phase 230 V voltages

## Commercial references

Comet 3000 3:1	15 kVA	20 kVA	30 kVA
UPS only	WWCUV150	WWCUV111	WWCUV104
UPS only XL (for backup times > 15 min)	WWCUV151	WWCUV121	WWCUV114
UPS + 5' integral batteries	WWCUV152	WWCUV101	WWCUV105
UPS + 10' integral batteries	WWCUV153	WWCUV102	WWCUV106
UPS + 15' integral batteries	WWCUV154	WWCUV103	
A15' battery enclosures			WWCBV001
Empty battery enclosures		WWCBV011	
Dry contacts cards		WWCCV001	
Network Management link		66077	
Redundant UPS only	WWCUV130	WWCUV140	WWCUV155
Redundant UPS only XL for backup > 15 mn	WWCUV134	WWCUV144	WWCUV158
Redundant UPS + 5' integral batteries	WWCUV131	WWCUV141	WWCUV156
Redundant UPS + 10' integral batteries	WWCUV132	WWCUV142	WWCUV157
Redundant UPS + 15' integral batteries	WWCUV133	WWCUV143	

## Technical characteristics

Comet 3000 3:1	15 kVA	20 kVA	30 kVA
Active power output (kW)	12	16	24
Input			
Source 1	From 342 V to 457 V 3 phases		
Source 2	3 phases + neutral		
Frequencies	50 or 60 Hz +/- 5%		
Outputs			
Voltages (user-definable)	220 / 230 / 240 V single-phase		
Frequencies	50/60 Hz +/- 0.001 Hz		
Permissible overloads	150% for 1 minute, 125% for 10 minutes		
Voltage distortion (Ph/Ph)	THDU < 2% on a linear load		
Crest factor	3:1		
Efficiency	Up to 90%		
Batteries			
Type	Sealed lead-acid batteries		
Recharging time	8 hours for 80% battery output (10 minutes)		
Battery capacities	5, 10 and 15 minutes (various times available on request)		
Recommended operating temperatures	15° to 25°		
Paralleling	Up to 2		
Environment			
Evaluated losses (in kW)	1,16	1,55	2,33
Noise level (dBA)	58		
Operating temperatures (°C)	0° to 40°		
Storage temperatures (°C)	-10° to 60°		
Protection index	IP20		
Colour	RAL 9001		
Technical standards			
Construction	IEC 62040-1-2, IEC 60950, EN62040-1-2		
Topology and performance characteristics	IEC 62040-3, 62040-3		
Design and manufacture	ISO 14001, ISO 9001, IEC 60146		
EMC	IEC 62040-2		

## MGE UPS SYSTEMS

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