

Comet **EXtreme** 4.5/6/9/12 kVA

*Modular protection for your
computer rooms, networks,
Internet and telecom systems*

Advanced Features

► **High performance and reliability**

- On-line double conversion technology
- Input voltage ranging from 84 to 264 Volts without using battery power

► **Redundancy & High availability**

- Cold start enables UPS to power up without utility
- Automatic bypass in case of overload or UPS fault
- Hot-swappable batteries

► **Advanced communications**

- Wide range of communication solutions
- Solution-Pac remote administration software
- UPS-Driver personalization software

► **Ease of use**

- Easy installation and integration
- Full-featured user interface

► **Flexibility and scalability**

- Backup times from 10 minutes to 8 hours
- ECO mode (efficiency up to 97%)



M G E
UPS SYSTEMS



The Comet **EXtreme** was designed with the same on-line double conversion technology that has won over 95 of the Fortune 100 companies. We are now able to offer the same technology in a high efficiency/small footprint UPS for businesses that need a customized protection solution.

High performance and reliability

► On-line double-conversion technology

This technology guarantees a consistently high level of power quality. Whatever the disturbances on the distribution system, the waveform is regenerated by the UPS to produce a noise-free sinewave output. The battery is used only as a backup source.

► High-performance battery charger

The Comet **EXtreme** battery charger:

- Reduces battery recharge time (80% backup time recovered in two hours).
- Increases the service life of the battery by taking into account manufacturer parameters, ambient temperature and battery aging.
- Protects the battery against damage caused by deep discharge.

► Avoids disturbances on the distribution system by correcting the power factor

► Backfeed protection to avoid propagating faults on the distribution system

► Wide input-voltage range

This technology makes Comet **EXtreme** unique in the market. You can adjust the input voltage window (down to 160 to 265V when you use 100% of the load, down to 120V for 66% load and down to 84V for 50% load) to reduce the number of transfers to battery power while maintaining constant output voltage. This maximizes the battery power available for serious power problems and extends battery life.



High availability

► Cold start on battery power

Enables UPS to start without utility power if required allowing your equipment to run in the event of an emergency.

► Automatic bypass

In the event of an overload or UPS fault, Comet **EXtreme** automatically transfers your equipment to utility AC power.

► Redundancy

For your critical applications, you can combine two Comet **EXtreme** UPSs to create a redundant power solution. With your UPSs and a Multislot module equipped with a MetaUPS card and an SNMP card, you can monitor the status of both UPSs via your network.



► Hot-swappable batteries

Comet **EXtreme** lets you service the UPS module and replace batteries without interrupting the supply of power to your applications.

Advanced communications

Comet **EXtreme** offers a complete set of communication solutions and accessories designed for electrical and computer applications.

► Communications port

The EIA-232 (RS232) link is available for easy connection of the UPS to the server. It may be used for:

- **Personalization of the Comet EXtreme** by modifying the factory-set parameters (output voltage, intervals between battery tests, operation on bypass, ECO mode, etc.) via UPS-Driver software.
- **Local or remote administration** (SNMP/WEB) of the UPS and the protected servers, using Solution-Pac software.

► Solution-Pac software

Solution-Pac may be used to:

- Warn the administrator via fax, email or pager.
- Automatically shut down different servers in a multi-platform environment.
- Remotely supervise and control UPSs.

► Two communications slots

These slots let you add one or two USB, SNMP, JBus communication cards, or even a relay contact card for UPS status indication. These cards make UPS communications independent of the server. UPS status information is available to any network connected system.



Communications slots



UPSControl remote control panel

► UPSControl remote display

Using UPSControl, the various UPS parameters are remotely displayed.

► MultiSlot expansion module

This module provides three additional communications slots which allows multiple network communications such as: SNMP (ethernet), U-Talk, HID, SHUT, etc. as well as providing the ability to concentrate data from a redundant UPS configuration.



Solution-Pac ensures clean individualized shutdown of servers in heterogeneous environments.





Ease of use

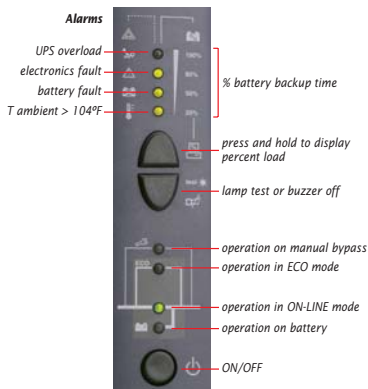
Easy installation and integration

- Tower and 19"-rack models
- Complete installation kit
- Quick start-up guide
- Easy connection via terminal blocks



The Comet **EXtreme** Rack comes with sliding rails for 24-36 inch rack-mount cabinets.

Comprehensive display and controls



Comet **EXtreme** Terminal blocks connection

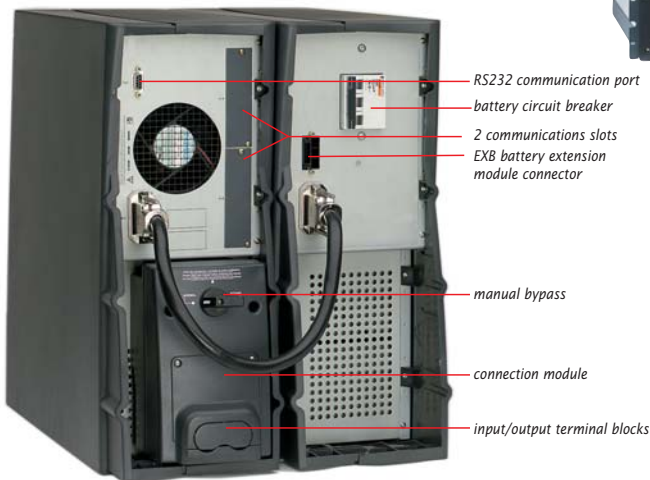


Power Range and Runtime Scalability

The Comet **EXtreme** offers a variety of solutions as your business grows. From 4.5kVA up to 12kVA, you can choose the right products to suit your needs.

The extended battery module design allows you to scale up your runtime to maximize uptime for your critical systems.

The modular design allows you to configure power backup systems for your specific needs. Choose your voltage needs, redundancy needs and runtime needs. Comet **EXtreme** is a reliable and economical solution.



Rear view of Comet **EXtreme** 6

Return on Investment

Why is it profitable to buy the MGE Comet **EXtreme**?

- ▶ You will save up to 15% on your electric bill with the Comet **EXtreme**'s power factor corrected input.
- ▶ Comet **EXtreme** also limits downstream harmonics that can disturb sensitive equipment sharing the utility power and create costly disturbances.
- ▶ Impressive footprint optimizes your computer room or rack cabinet space - only 12U for 6kVA protection (208V input/120V output).

Emergency Power Off

An emergency power off function is available as an option.

Electromagnetic compatibility

Comet **EXtreme** 19" rack models comply with the most severe EMC standards (level B) to avoid all risk of disturbances in your network rack-mount cabinets.

Characteristics

Comet EXtreme	4.5kVA	6kVA	9kVA	12kVA	
General					
Power	4.5kVA/3kW	6kVA/4kW	9kVA/6kW	12kVA/8kW	
Nominal input voltage	200/208/220/230/240V				
Frequency range	50/60Hz				
Power factor (THD Input)	0.99 (<5%)				
Sinusoidal output voltage	104/120/200/208/220/230/240V (with transformer); 200/208/220/230/240V (without transformer)				
Efficiency	92%	93%	92%	93%	
Crest factor	4.2	3.1	4.2	3.1	
Short circuit current (A)	82	82	164	164	
Overload capacity (inverter)	130% for 60s, 160% for 10s, 250% for 1s				
Batteries					
Standard backup time	Full load	14 min (1 batt module)	9 min (1 batt module)	14 min (2 batt modules)	9 min (2 batt modules)
	Half load	30 min (1 batt module)	28 min (1 batt module)	30 min (2 batt modules)	29 min (2 batt modules)
EXB battery (Full load) extension module	LA	35 min (2 batt modules)	26 min (2 batt modules)	35 min (4 batt modules)	29 min (4 batt modules)
	XLA (2xLA)	50 min (3 batt modules)	39 min (3 batt modules)	55 min (6 batt modules)	40 min (6 batt modules)
	2xXLA	97 min (5 batt modules)	73 min (5 batt modules)	100 min (10 batt modules)	69 min (10 batt modules)
Automatic battery test (programmable)	Every day/Once a week/Once a month				
Typical recharge time	2 hours 45 minutes				
Battery Type	5Ah				
Remote Emergency Power Off	Yes				
Communications					
Port	1 RS232/U-Talk + 2 communication slots				
Management software included	Solution-Pac & UPS driver				
Optional cards for UPS or Multislot module	SNMP ; 2 RS232 U-Talk or Basic (volt-free contacts) ports ; RS232 or RS485 Jbus/ModBus ; 6 relay contacts 250V 2A ; USB ; 2 RS232 COM ports (HID protocol) ; 2 AS400 (volt-free contacts) or/and remote shutdown ports				
Power Distribution Module (options)					
Configuration 1	16xNEMA 5-15				
Configuration 2	4xNEMA L5-20 and 8xNEMA 5-15				
Configuration 3	4xNEMA L6-30 and 8xNEMA 5-15				
Configuration 4	6xNEMA L5-20 and 2xNEMA L6-30				
Configuration 5	4xNEMA 5-20 and 8xNEMA 5-15				
Configuration 6	4xNEMA 6-20 and 8xNEMA 5-15				
Configuration 7	6xNEMA 5-20 and 2xNEMA 6-30				
Physical (HxWxD in inches)/Weight 120V output (with transformer)					
Tower	17.44x20.43x18.3 (3 modules)/233 lbs		17.44x35.62x18.3 (4 modules)/479 lbs		
Rack	20.89(12U)x19x18.18 (3 modules)/249 lbs		36.56(21U)x19x18.18 (5 modules)/478 lbs		
Physical (HxWxD in inches)/Weight 200/208/220/230/240V output (without transformer)					
Tower	17.44x13.62x18.3 (2 modules)/136 lbs		17.44x22.12x18.3 (3 modules)/259 lbs		
Rack	13.93(8U)x19x18.18 (2 modules)/151.8 lbs		22.63(13U)x19x18.18 (3 modules)/283.8 lbs		
Environmental					
Acoustic noise	45 dB				
Operating temperature	0 to 40°C, 32 to 104° F				
Altitude	3280 feet				
Conformance					
Approvals	UL, cUL, ISO 9001, ISO 14001				
Warranty	2 years, parts and labor				



Comet **EXtreme** 4.5/6kVA Standard Configuration (208V output) without transformer

One electronic module and one EXB battery module



Comet **EXtreme** Extended Batteries LA 4.5/6kVA



Comet **EXtreme** 9/12kVA Standard Configuration (208V output) without transformer

One electronic module and two EXB battery modules



Comet **EXtreme** Extended Batteries LA 9/12kVA



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