

**MGE UPS SYSTEMS' Pulsar EX** models provide a superior on-line solution from 700 to 3000 VA in a 2U and 3U high power density package, as well as a convenient free-standing tower.

**True on line double conversion technology** provides the maximum availability of your critical systems. Any interruptions, surges or other poor quality power conditions are totally removed while a stable, noise free pure sine wave output is supplied to the equipment.

THE UNINTERRUPTIBLE POWER PROVIDER

# Pulsar EX

Smart Protection for Critical Equipment

#### **Advanced Features**

- "True" On Line Double Conversion technology
- Free-standing or rack-mounted models
- Lightest & smallest rack-mounted UPS available
- 10/100 Ethernet connection option
- SNMP and Web based remote supervision
- Smart battery management
- Sine wave output
- Input power factor correction
- Fault tolerant mode
- Contact closure option
- Optional maintenance bypass and output step-up transformer

# UPS SYSTEMS

# Increased Critical Device Uptime All the Technical Features You're Looking For

F	eatures	Benefits
	The built-in microprocessor optimizes the charging sequence to prolong	
		battery life and reduce charging time to only 3 hours, 80% capacity
	Sine wave output	Total compatibility with sensitive power supplies
	Extended back-up time (EX 10 & above)	Extended battery runtime for Internet servers or Telecom applications
		by adding hot-swappable modules to the UPS

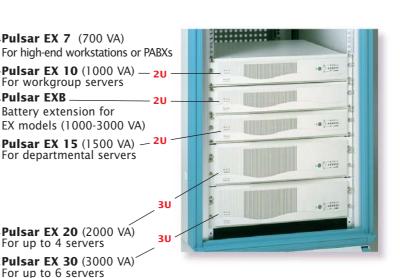
# **On-Line Technology Delivers More Than Traditional Line-Interactive UPSs**

Features	Benefits				
Continuous voltage regulation	Longer life for your computer hardware. Continuous voltage				
	regulation prevents output voltage disturbances typical of line-interactive UPSs				
Input power factor correction	Reduces harmonics. Increases UPS output power				
Wider input operating range	In extreme brownout conditions (down to 70 volts at 1/3 load), the UPS				
	continues to operate without switching to batteries				
Light weight	Heavy 60 Hz magnetics eliminated				
Low profile rack-mounted unit	Saves valuable space in rack enclosure				

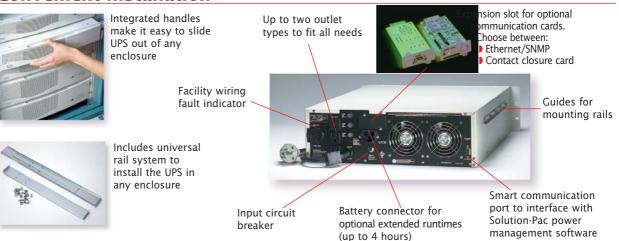
## For Any Network Application

Whatever your need is, there is an EX waiting for you, in two convenient form factors, Tower or Rack-mount.





## **Convenient Installation**



# **Perfect** Network Integration Solution-Pac Power Management Software

All EX models are supplied with MGE's **Solution-Pac software.** This is the most comprehensive tool available for power management, UPS remote control, automation of everyday tasks (e.g. server startup & shutdown) and for setup of proactive measures during emergencies (orderly system shutdown, paging, etc.). Solution-Pac/WAN uses a TCP/IP-based, distributed architecture to take advantage of unmatched network communication capabilities:

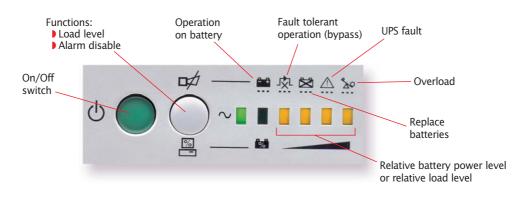
- Cross-platform compatibility for a combination of Windows NT, NetWare, Unix, OS/2 and VAX systems
- Multiple server shutdown, without the use of bulky, expensive and featureless external splitter boxes

Built-in SNMP and Web capabilities for remote management from Solution-Pac Windows, any system with a Web browser, Unix-based consoles or from a distant network management system such as CA Unicenter TNG, HP OpenView, IBM NetView or SunNetManager.



In addition to the convenient proxy agents provided with Solution-Pac, the optional SNMP/Web card provides direct network connection. The UPS will have its own IP address and ability to remotely control the server it protects. The optional status card is used for telecom applications where only basic information such as "UPS on battery" or "low battery" is required. It is also used to interface Pulsar EX with an IBM AS/400.

## **Comprehensive Display and Controls**



# **Pulsar EX Specifications**

## Dimensions and Weights





Model No.	Part No.	Dimensions WxHxD (in.)	Weight (lbs.)	Part No.	Dimensions WxHxD (in.)	Weight (lbs.)
<b>EX 7</b> (700VA/490W)	89007	5.7x8.7x15.8	27			
EX 10 (1000VA/700W)	89010	5.7x8.7x15.8	31	89010R	2U-19x3.5x16.3	38
EX 15 (1500VA/1050W)	89015	5.7x8.7x15.8	43	89015R	2U-19x3.5x19.5	51
EX 20 (2000VA/1400W)	89021	7.6x13x17	77	89021R	3U-19x5.3x21.8	88
<b>EX 30</b> (3000VA/2100W)	89030	7.6x13x17	77	89030R	3U-19x5.3x21.8	92
EXB 10 battery extension	89011	5.7x8.7x15.8	42	89011R	2U-19x3.5x16.25	49
EXB 15 battery extension	89016	5.7x8.7x15.8	56			
EXB 20/30 battery extension	89031	7.6x13x17	110			
Rack Kit EXB 10/15	8806U	6U-19x10.5x19	20			
Rack Kit EXB 20/30	8807U	5U-19x8.8x19	20			
<b>EX 20</b> maintenance bypass	89020MBP	7.6x13x17	15			
<b>EX 30</b> maintenance bypass	89030MBP	7.6x13x17	15			
EX 30 208 or 240 VAC step-up transformer	89032	7.6x13x17	65			

Sizing Guide and Battery Runtimes	Sm. Business Server	Work-group Server	Departmental Server	2 Each PC Servers	Enterprise PC Server	<b>RISC Server</b>	5 Each PC Servers	6 Each PC Servers
Power (VA)	300	700	1000	1250	1500	2000	2500	3000
EX 7	23	8						
EX 10	50	16	9					
EX 15	60	18	10	8	5			
EX 20	130	45	23	19	17	10		
EX 30	130	45	23	19	17	10	8	5

Eg. 2 PC servers are protected for 8 minutes with an EX15, or 19 minutes with an EX20/30.

Characteristics	EX7	EX10	EX15	EX20	EX30		
Electrical							
Input voltage range			70-138 VAC				
Output power (VA/W)	700/490	1000/700	1500/1050	2000/1400	3000/2100		
Output voltage			120 VAC ±3%	·			
Technology			e on-line double conversion				
Input frequency range		47-53	B Hz or 57-63 Hz, auto-select				
Input power factor			>0.95				
Input plug	NEMA 5-15 w/6' cord	NEMA 5-15 w/6' cord	NEMA 5-15 w/6' cord	NEMA L5-20 w/6' cord	NEMA L5-30 w/6' cord		
Output receptacles	3* NEMA 5-15	3* NEMA 5-15	3* NEMA 5-15	NEMA L5-20, 3* NEMA 5-15	NEMA L5-30, 3* NEMA 5-15		
Crest factor			3:1				
Cold start			Yes				
Batteries							
Back-up time (100% load)	8 min.	9 min.	5 min.	10 min.	5 min.		
Back-up time with extension module(s):							
One/two, EXB modules, (100% load)	N/A	33/60 min.	30/55 min.	40/90 min.	30/60 min.		
Recharge time (internal battery, 80%)	3 hours						
	Periodic automatic self-test (frequency adjustable using EX Driver), protection against deep discharges. Safety: UL, cUL, FCC A. Surge: ANSI/IEEE C62.41 Cat. A. Design, production, logistics and service: ISO 9001.						
	Sa	ety: UL, cUL, FCC A. Surge: ANS	61/IEEE C62.41 Cat. A. Design, pro	oduction, logistics and service: ISO	9001.		
Fault Tolerance			C: 1 1				
Automatic bypass			Standard				
Communications		6.155					
	ser interface         6 LEDs + bar graphs + audible alarms           iagnostics         Complete self-diagnostics on start-up, weekly self-test						
Diagnostics		Complete sei		seit-test			
Communication			True RS232 port				
	oftware provided EX Driver and Solution Pac						
Platforms supported							
Network boards (optional)	Network boards (optional) SNMP/Web Card, status information/AS/400						
Environment							
Noise level			<41 dBA				

NOISE IEVEI	<11 UBA
Environmentally friendly	Energy-saving function (sleep mode). Recyclable components.
	Packaging and documents made of recycled paper. Recovery of used batteries.
Warranty (U.S. & Canada)	

ТНЕ

Parts and labor P3 equipment protection warranty

2 years, inc. batteries \$35,000

#### MGE UPS SYSTEMS

USA (headquarters) CANADA 1660 Scenic Avenue Costa Mesa, CA 92626 
 tel
 (800) 523-0142
 tel
 (905) 672-0990
 Prov de Buenos Aires
 Cuarapiranga

 (714) 557-1636
 (877) 672-0990
 tel
 (54) 11-4766-8777
 Sao Paulo - SP, CEP 05802

 fax
 (714) 557-9788
 fax
 (905) 672-7667
 fax
 (54) 11-4766-6008
 tel
 (55) 11-5891-2274

 CMCE UPS SYSTEMS, Inc. All specifications subject to change without notice. The MCE UPS SYSTEMS logo is a trademark of MCE UPS SYSTEMS.
 fax
 (55) 11-5890-3353

#### ARGENTINA #9, 2798 Thamesgate Dr. Mississauga, ON L4T 4E8 tel (905) 672-0990 (877) 672-0990 Thames 91 1609 San Isidro

#### UNINTERRUPTIBLE POWER PROVIDER BRAZIL

Avenida Guido Caloi 1985 (GALPAO 23)

Ave. Congreso de la Union #524 Colonia Santa Anita Mexico D.F 08300 tel 525 538 9687 fax 525 530 7625

MEXICO

www.mgeups.com info@mgeups.com

EX 126 Effective: January 2003