



APPLICATION GUIDE

Power Solutions Across Every Industry

INDUSTRY OVERVIEW

Security installations are mission-critical, 24/7 environments where power interruptions create immediate vulnerabilities. From IP cameras and DVR/NVR systems to access control panels and intrusion detection, every device in the security chain depends on clean, continuous power.

Power outages, surges, and brownouts compromise video recording, disable electronic locks, silence alarm systems, and create gaps in coverage that can lead to costly breaches. In multi-site deployments, the challenge compounds — hundreds of distributed devices across buildings, campuses, and remote locations all need reliable power with centralized visibility.

WHY INSTALL POWER PROTECTION FOR SECURITY SYSTEMS?

Continuous Surveillance

Cameras and DVRs must record 24/7 — even a brief outage creates evidence gaps that can have legal and safety consequences.

Access Control Integrity

Electronic locks, card readers, and biometric systems default to fail-safe or fail-secure modes during power loss, potentially locking out staff or leaving doors unsecured.

Alarm System Reliability

Intrusion detection and fire alarm panels require clean, stable power. Voltage sags and surges cause false alarms or missed detections.

Remote Site Challenges

Many security devices are deployed in IDF closets, parking structures, and unmanned locations where power quality is poorest, and service access is limited.



This application guide helps engineers, integrators, and security professionals select the right Minuteman power protection solutions for surveillance, access control, and alarm system installations.

EQUIPMENT PROTECTED

- IP Cameras & PTZ Systems
- DVR/NVR Recording Systems
- Access Control Panels & Card Readers
- Intrusion Detection & Alarm Panels
- Guard Station Workstations
- Video Analytics Servers
- Intercoms & Emergency Call Stations
- Network Switches for Security VLANs

RECOMMENDED MINUTEMAN SOLUTIONS

[Enspire-G® Standby UPS \(450–900VA\)](#)

- Ideal for individual cameras, small panels
- Compact desktop form for tight enclosures
- USB communication for monitoring
- Surge + battery backup in one unit

[Entrust-LG® Line Interactive UPS \(550–2000VA\)](#)

- AVR corrects brownouts common at remote sites
- Ultra-compact — fits inside DVR/NVR cabinets
- USB charging on select models
- LED/LCD status display

[PRO-RT2U® Line Interactive UPS \(750–2000VA\)](#)

- Rack/Tower convertible for head-end rooms
- Automatic Voltage Regulation (AVR)
- Protects access control servers and network switches
- RS-232 & USB communication ports
- [SNMP](#) card slot

[SR Series Line Interactive \(1000VA–1500VA\)](#)

- Shallow depth for retail network closets
- Ideal for space-constrained back rooms
- Line interactive with AVR
- Protects against surges and brownouts

[EXR® Series Line Interactive UPS \(750VA–3kVA\)](#)

- True sine wave output — critical for sensitive electronics
- Rack/Tower convertible form factor
- Hot-swap batteries on select models
- Expandable runtime with Extended Battery Modules “EBMs”
- [SNMP](#) card slot
- Ideal for video analytics servers

[Encompass® RTX Online UPS \(1–3kVA\)](#)

- Double-conversion — zero transfer time
- Cleanest power for mission-critical head-end
- Rack/Tower form factors
- [SNMP](#) card slot
- Expandable runtime with EBMs

OE SERIES POWER DISTRIBUTION UNITS (PDU)

OE Series Basic PDU — Rack-Mount Power Distribution

OE Series PDUs distribute UPS-protected power within security head-end racks, ensuring clean power reaches every DVR, switch, and access controller from a single UPS source.

- Horizontal rack-mount form factor — 1U or 0U vertical configurations
- Multiple outlet counts (6, 8, 10, 12, 14, 16, 20) to match any deployment
- 15A and 20A circuit breaker options for standard and high-power loads
- Cost-effective power distribution — delivers clean UPS power to every device in the rack

ACCESSORIES, SOFTWARE & SUPPORT

RPM® Remote Power Managers

Per-outlet switching for remote camera and DVR reboots without truck rolls. 2-port, 4-port, 8-port, and 16-port configurations with [SNMP](#)/web management.

SNMP Monitoring Cards

Real-time UPS status, alerts, and management integrated with security NOC dashboards and network monitoring platforms.

SentryHD Software

Automated graceful shutdown of DVR/NVR systems during extended outages. Email/SMS alerts for power events across multi-site deployments.

Free Online Tools

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