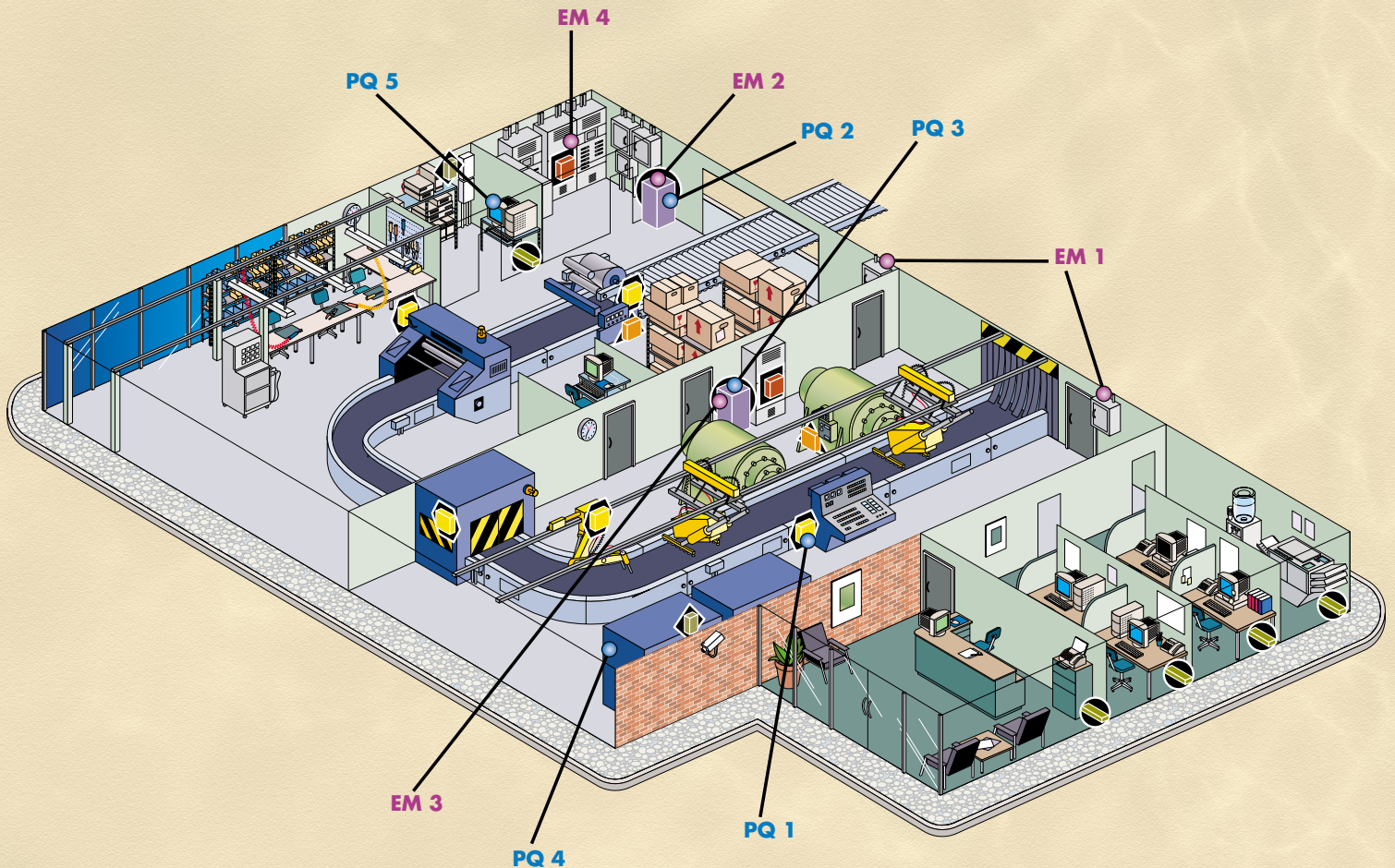


Power Quality and Energy Management Capabilities Line Card

Meters and Metering Systems; Relays	Comprehensive line of electrical system meters. IQ Metering used to measure power and energy across a wide variety of industries and applications. Range of products includes impressive Power Quality meters IQ-7000, IQ Analyzer and Portable IQ Analyzer; robust meters for switchgear and switchboard IQ DP-4000, and panelboard IQ 200; and a complete line of sub-metering devices for both single and multiple loads IQ Sentinel and Energy Sentry. Discrete devices or imbedded in circuit breaker trip units DT-3000 and relays MP-3000 and FP-5000.
Power Management Software	PowerNet™ power management software provides a selection of capabilities to monitor, alarm, trend and control your electrical distribution system. Integrate Power Quality meters, substation protection relays, circuit breakers and motor starter information. Software that goes beyond viewing the system - allocate costs, reduce energy charges and locate the source of power quality problems.
Predictive Diagnostics, Partial Discharge	InsulGard™ System (relays, sensors, software) for continuous, online integrity testing and monitoring. Designed for medium voltage switchgear, bus duct, cable terminations, loadcenters, hydro generators, turbine generators and large motors.
Surge Protection	Leader in facility-wide surge protection including the Clipper Power System family of products, AEGIS, Datacom, CHSP, and other surge components. Offered as stand alone, or integrated in Cutler-Hammer assemblies.
Sag Correction & Voltage Regulation	The SRT is the most cost-effective solution for preventing disruptions due to voltage sags (20 to 4000kVA applications). EVR is our family of LV Voltage Regulators, including hospital and industrial grades (10 to 1250kVA applications).
Power Factor Correction	Full line of MV and LV Power Factor systems. Full engineering support for reducing costly PF penalties (240V to 115KV, 1-15,000 kVAR sizes)
Harmonics <ul style="list-style-type: none"> • Tuned Filters • Active Filters • Harmonic Mitigating Transformers • Harmonics Blocker • Other 	<p>Fixed and Switched LV and MV Harmonic Filters. Standard and custom filters available. Turnkey solutions available to help ensure cost-effective harmonic reduction.</p> <p>Power electronic Harmonic Correction Unit (HCU) for active cancellation of harmonics. NEMA 1 Enclosure or integrated in Motor Control Centers (MCC)s.</p> <p>Specialty designed phase-shifted transformers designed to cancel harmonics in the electrical distribution system. Unique design is Energy Star compliant.</p> <p>Prevents 3rd order harmonics in commercial buildings on 120 systems (computers, printers, etc). The Harmonics Blocker will reduce energy consumption and 3rd harmonics as well as improve system capacity.</p> <p>Other products for harmonic applications include 18-Pulse Clean Drives, K-Factor Transformers. Engineering expertise fits the right solution to the installation need.</p>
Automatic Transfer Switches	A full range of LV ATS products for residential, commercial and industrial applications. Ideal for Standby, Peak Shaving or Distributed Generation applications. Free standing and wall mount with unique logic controllers.
Rotary UPS (Battery Free)	Full line of 180kVA to 1.7 MVA UPS, parallel units for larger applications. Flywheel system provides 15 to 38 seconds ride through. Full UPS system when combined with standby engine.
Power Distribution Units (PDU)	PDUs for distributing computer grade power to data processing equipment and other critical loads. Ranging from 15kVA to 300kVA, full of features and designed to enhance utilization of floor space in computer facilities.
Grounding and Lightning Systems	Turnkey approach for commercial, industrial and telecommunication grounding systems. Also offer full lightning protection systems. Standard or custom solutions available.
PQ Engineering Services	Cutler-Hammer Engineering Services and Systems (CHESS) has over 700 professionals who perform studies, maintenance, and turnkey projects. Power Quality: Leadership in PQ assessments, studies and wide range of Power Systems services. Energy Management: Power System integration services to design, install and maintain power management systems.
Lease Financing	Leasing is available for all PQ products and turnkey services. Flexible lease packages can be provided to meet most customer requirements.



Power Quality Solutions

PQ 1 - Power Quality Monitoring & Analysis

Effective power systems require monitoring and engineering support.

Includes meters, relays and power management software.

PQ services include power system studies, consulting, turnkey projects and maintenance services.

PQ 2 - Surge Protection

A complete surge solution includes protection on the A/C powerline, telephone and datalines.

PQ 3 - Harmonics

Harmonic solutions for industrial/commercial facilities. Products include tuned filters, active filters, phase shift transformers and other products.

PQ 4 - Back-up Power Systems

Some type of back-up power system is often required. This can include UPS, transfer switches, sag correction and other power conditioners.

PQ 5 - Grounding & Lightning

Grounding/bonding is essential to reliable equipment operation.

Lightning protection is an important consideration for some facilities.

Energy Management Solutions

EM 1 - Energy Monitoring & Analysis

Flexible power monitoring systems to manage and control energy usage. Products include meters, submeters and software for billing/allocation, trending, remote monitoring and other applications.

EM 2 - Power Factor Correction

Cost-effective LV and MV products to improve power factor and eliminate PF penalties.

EM 3 - System Efficiency

Products and design ideas to improve efficiency, control and capacity of distribution systems. Includes specialty transformers, harmonic filters, lighting control and engineering services.

EM 4 - Load Shedding and Peak Shaving

Tailored systems to minimize peak demand charges and conform to utility load shed commands.