

## Eaton Power Quality Pvt. Ltd.

# Meeting the power management needs of growing businesses

A part of Eaton Corporation, Eaton Power Quality Pvt. Ltd. caters to the specific needs of customers in South Asia. Built upon the achievements of its legacy, Eaton Power Quality is a technology leader in power quality protection, distribution and management solutions. It focuses on delivering high customer value by leveraging its strengths: unmatched knowledge of power management, a strong support network and industry-leading products and solutions.

### Global portfolio and local support

Eaton helps businesses leverage from its global portfolio of power management solutions to enhance availability, while reducing associated costs. Add to this the benefit of local presence and the support of Eaton's global network of engineers to solve customers most critical power challenges.

### Unmatched knowledge and experience

With unparalleled knowledge of power management for over 45 years, Eaton's experienced specialists can manage construction projects from start to finish, recondition or upgrade equipment or help businesses make the most of its existing electrical equipment by optimising performance and longevity.

### Unbeatable technology

Eaton offers a large portfolio of industry-leading solutions that utilise innovative, energy-saving technologies. Eaton UPSs run at high levels of efficiency, consuming less power and dissipating less heat in a small footprint. All adding up to reduce operational costs and increase availability for businesses.

### Ceaseless commitment & support

At Eaton Power Quality, support is not just an extra benefit it provides; it's at the heart of how it executes the business. With the combined technology and expertise provided by Eaton Corporation, along with local presence and resources, Eaton's commitment to businesses in India and South Asia will be as continuous and reliable as its products and services.

## Comcon Electronics

### A pillar of success

Comcon Electronics Pvt. Ltd. has been a privileged partner of Eaton Power Quality Pvt. Ltd. since 2001.

With consistent focus on marketing, sales and service of Power Quality products, Comcon has been partnering Eaton for a complete range of UPS systems from 500 VA to 5000 kVA.

Comcon operates in varied industry verticals such as process industry, ITeS-BPO, textile, entertainment, medical, hospitality etc.



There are companies that generate power. And others that transmit it. But Eaton is different.

Eaton provides solutions that manage power.

Solutions that take complexity out of power management to deliver reliable, efficient and safe electrical power – the foundation of every successful enterprise.

Through innovative technologies, cutting-edge products and a highly-skilled services team, Eaton empowers businesses around the world to achieve success, however it's defined.

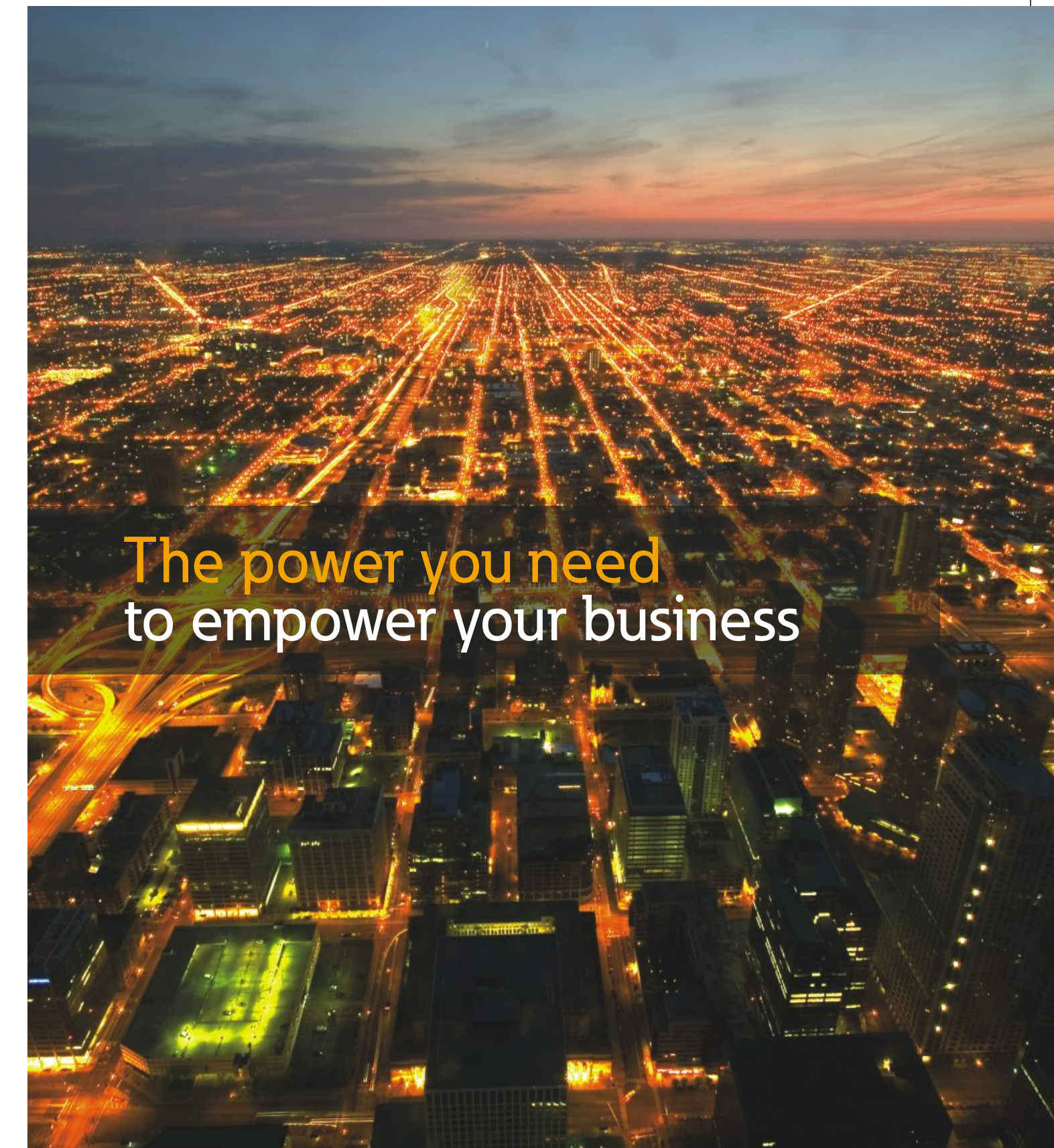
Switch  to Eaton  
[www.eaton.com/powerquality/india](http://www.eaton.com/powerquality/india)

### End-to-end Power Management portfolio:

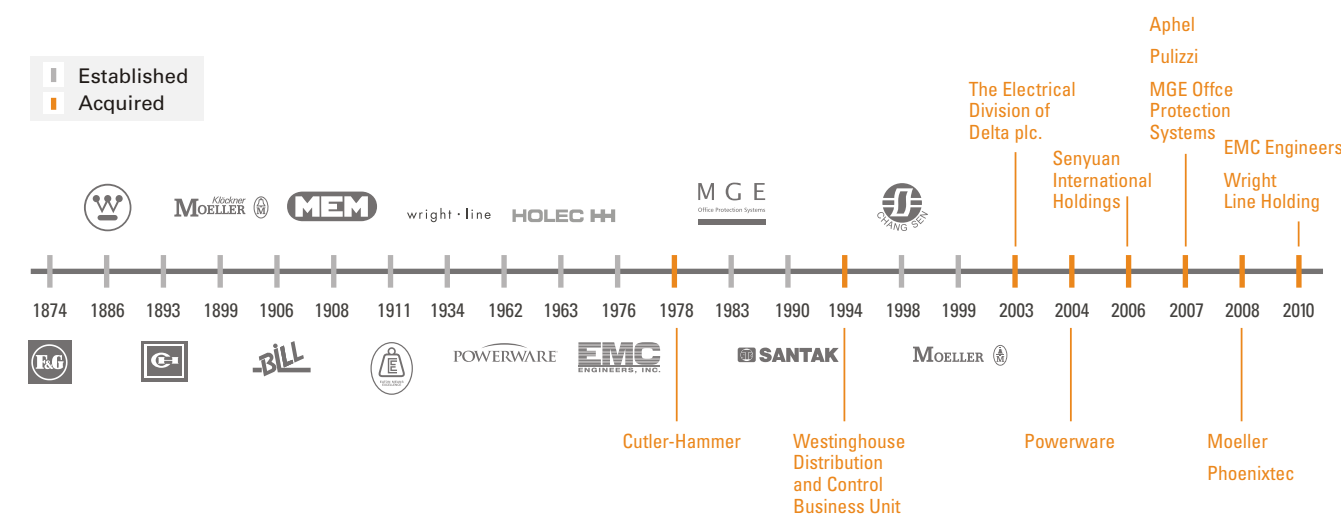
- Airflow Management
- Backup Power (UPS)
- Connectivity
- DC Power Solutions
- Racks and Enclosures
- Integrated Services
- Power Management
- Power Distribution Units
- Remote Monitoring
- Surge Protective Devices

### Expertise in market segments:

- Buildings
- Data Centres
- Energy and Utilities
- Industrial and Machinery
- Information Technology
- Infrastructure
- Transportation



## The fusion of our heritage – Global technology. Regional solutions.



## Comcon Electronics Pvt. Ltd.

B-29, 2nd Floor, Phase – II, Noida – 201305, U.P.  
 Phone: 0120-4242850, 51, 4265261  
 Mob. 9311661130 – 33  
 Email: [info@comconelectronics.com](mailto:info@comconelectronics.com)  
[www.comconelectronics.com](http://www.comconelectronics.com)





To be a power management leader,  
it helps to have a 100-year head start

## Eaton Corporation

Founded in 1911, Eaton Corporation is a diversified industrial manufacturer and a global leader in various industrial markets, including:

- electrical products, systems and services for power quality, distribution and control, power transmission, lighting and wiring products;
- hydraulics components, systems and services for industrial and mobile equipment;
- aerospace fuel, hydraulics and pneumatic systems for commercial and military use;
- and truck and automotive drivetrain and powertrain systems for performance, fuel economy and safety.

With 2012 sales of \$16.3 billion, Eaton has over 103,000 employees globally and sells products to customers in more than 175 countries



We help the world use electrical, fluid and mechanical power more reliably, efficiently and safely.

## Eaton Power Quality Products



Eaton is a single-source provider of power quality and backup power management solutions, including uninterruptible power system (UPS), surge protection and power monitoring and management software, and comprehensive services.

It is our mission to give our customers the confidence that power problems will not disrupt their systems, data and operation. This confidence is delivered through more than 45 years of solid performance, in-depth knowledge of customer applications, continuous and world-class services.

### Single Phase UPS

#### Eaton Aurora UPS 600 / 1000 VA

- Microprocessor controller design
- Double Boost & Buck voltage regulation
- Wide input-voltage range
- Cold start on battery power
- Compact design for placement on or under a desk



#### Eaton 5PX UPS 1500 – 3000 VA

- Up to 99% efficiency
- ABM technology, enhanced battery life
- High 0.9 p.f. output rating for server and computer loads
- User friendly LCD display
- Software Suite bundled



#### Eaton EX 0.7, 1 & 1.5 kVA

- Individually controlled output sockets for maximum backup time
- 1 to 4 EXB battery units can be added to the Eaton EX
- Wide range of options using the Solution-Pac supplied: SNMP and HTML, ModBus/JBus and relay output



#### Eaton 5EL UPS 1 – 2 kVA

- Line-interactive conversion topology
- Stepped sine wave for high efficiency
- Auto-restart function
- Wide input-voltage range
- Double Boost & Buck voltage regulation
- Cold start on battery power



#### Eaton 9130 700 VA – 6 kVA

- Protects against downtime, data loss and process interruption by providing continuous, clean power
- Offers premium performance with 0.9 power factor and >95% efficiency
- Enables prolonged runtime of essential equipment during power outages



#### Eaton E Series DX 1 – 20 kVA

- On-line double conversion topology
- Wide input-voltage range appropriate for the harshest electrical environment
- Automatic bypass for fault-tolerance



#### Eaton 9PX UPS 5 – 11 kVA

- On-line double-conversion design
- Up to 98% efficiency in high-efficiency mode
- Output power rated at 0.9 power factor
- Hot Sync redundancy
- ABM technology, enhanced battery life



#### Eaton 9SX UPS 5 – 11 kVA

- On-line double-conversion design
- Output power rated at 0.9 power factor
- Up to 99% efficiency in online mode
- ABM technology, enhanced battery life
- Serial, USB and relay connectivity, plus an extra slot for optional card



#### Eaton 9155 10 – 30 kVA

- Hot Sync redundancy
- ABM technology, enhanced battery life
- High 0.9 p.f. output rating
- User friendly LCD display
- Web/SNMP and ModBus monitoring capability



#### Eaton ePDUs

- Plug-and-power architecture distributes UPS power throughout high-density racks or wiring closets
- Options available for single-phase and three-phase applications up to 17 kW, flexible enough for blade server and switchgear applications
- Protects against overload conditions and tripped breakers



#### Eaton Static Auto Tie (SAT)

- Available for the Eaton 9315 and Eaton Power Xpert 9395 UPS models
- Adds a wrap-around static switch to the tie breaker in a Hot-Tie system, then adds intelligent controls so a power protection system made up of two or more separate UPS systems can automatically transfer entire loads during traumatic, catastrophic failure of one system

### Three Phase UPS

#### Eaton 9E UPS 80 – 200 kVA

- Transformer-free design
- Load surge suppression
- 0.99 input power factor
- Under 5% ITHD
- Output power rated at 0.9 power factor
- Hot Sync® technology



#### Eaton 9355 10 - 40 kVA

- Protects connected equipment from the nine most common power problems
- Hot Sync redundancy
- ABM technology, enhanced battery life
- Low THD of less than 5%



#### Eaton E Series DX 20 - 80 kVA

- Excellent protection against dust
- N-X Redundancy
- Intelligent battery management
- Easy operation and maintenance
- Dual line input function
- High performance DSP processor



#### Eaton 9390 40 - 160 kVA

- Low THD of less than 3%
- Input power factor of 0.99
- Output power rated at 0.9 power factor
- Hot Sync redundancy
- ABM technology, enhanced battery life
- Remote monitoring of UPS and battery



#### Eaton Power Xpert 9395 275, 550, 825, 1100 kVA & multiples for higher capacity

- Provides unmatched efficiency, iTHD and power factor
- No need to switch to bypass for service
- Delivers highest reliability and availability for large, mission-critical systems by integrating redundant multi-module UPS into single, pre-wired unit



### DC Power Systems

#### SC200 System Controller

- Ethernet interface built-in
- SNMP agent
- Battery mid-point monitoring
- Eaton Fuel Saver
- SMS alarm message (with GSM modem)
- Comprehensive system control functions



#### APR 48 3G Rectifier 1.8 kW

- Fast on-line expansion of rectifiers (hot-swap)
- Automatic set-up from system controller
- Intelligent microprocessor controlled
- Industry leading power density
- High efficiency and unity power factor



#### CR48 3G Core Power Rectifier 5.8 kW

- Fast on-line expansion of rectifiers
- Intelligent microprocessor controlled
- Automatic set-up from system controller
- High efficiency and unity power factor
- Wide AC supply conditions



#### Eaton Blade UPS 12 kW to 60 kW

- A revolutionary power quality solution
- Ideal for blade servers, data centres, networking applications, storage devices and critical IT equipment
- Scalable and modular, BladeUPS expands power protection in a single 19-inch rack while reducing energy and cooling costs.



## Eaton Power Distribution Products

### MCB

- IEC 60898/ IEC 60947
- Up to 125A, 25KA 1, 1+N, 2, 3, 3+N, 4 pole
- B,C,D curves
- Complete accessories



### Busbar Trunking System

- Lux lighting range 25–63A
- Low power range 40–125A
- Medium power range 125–800A
- XP range 500–6300A



### RCD

- IEC 61008
- RCCB up to 125A, 10-500mA, 2/4 Pole
- Application specific models – close protection
- Automatic resetting unit for remote operation



### Electronic Control Relays

- Powerful and complete range
- Used for controlling, operating, regulating and display
- Safety version – safety functions plus standard functions
- Communication via Ethernet and standard bus systems



### Air Circuit Breaker

- IEC & UL tested
- Global certifications
- 800 - 6300A, 3/4 Pole
- Advanced protection releases



### HMI/HMI-PLC

- Up to 15", Graphical Touch Display
- High performance 400MHz RISC Processor for PLC applications
- Onboard 128MB memory expandable with SD card
- Programming with easy Soft-CoDeSys to IEC 61131
- CANopen, Ethernet, Webservice



### Photovoltaic Inverter

- Transformerless compact design
- Powerful communication interfaces
- Easy SOHO and OEM operations



### Molded Case Circuit Breakers

- IEC 60947-2
- Global approvals
- 20 - 2500A, 3/4 Pole, Thermal/Electronic
- Breaking Capacity 10 – 150KA
- Fixed / Plug In / Withdrawable



### Low Voltage Assemblies

- TTA to IEC 61439 – ½
- PCC & MCC, fixed & drawout versions
- Up to 6300A, 120KA
- Internal arc tested
- Tested to withstand seismic requirements



### Ring Main Unit (RMU)

- Only green RMU solution
- Vacuum switching and solid insulated live parts
- Motorised, metering versions
- Directly visible isolation
- Up to 24kV, VCB / Vacuum LBS combination



Xinia – The Green RMU

### Medium Voltage Switchgear

- IEC 622100-200
- Up to 24kV, 4000A, 50KA, single busbar system
- Internal arc tested, upto 50KA, AFLR
- Vacuum technology, air insulated
- Very compact footprint, only 600mm wide at 630A



### SmartWire-Darwin The easy way to connect

- Revolutionary design for switching cabinets
- Reduces mounting and wiring requirements by 60%.
- Significantly reduced engineering work required by PLC I/O modules

