

New

# Eaton 9E-IN 06-10 kW

Robust, Reliable, Compact and Efficient  
Power Management solution for Mission  
Critical Application



**EATON**

*Powering Business Worldwide*

# About **EAT•N**

Eaton is a global leading power management company with approximately 96,000 employees and has been in business for more than 100 years. Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power, safely and efficiently. In addition, these power management technologies help customers control costs and reduce their energy requirements.

Operating in

**175**

countries

**96,000**  
employees

**100+**  
years of  
experience

**18,000+**  
patents

**\$ 20.4**  
billion USD in  
sales

# New Eaton 9E-IN 06-10 kW

## Robust, Reliable, Compact and Efficient Power Management Solution



### Product Snapshot

Power Rating : 06-10 kW @ Unity PF  
Configuration : Tower  
Voltage : 230 Vac.  
Frequency : 50/60 Hz Auto Sensing  
Technology : High Frequency, Double Conversion

New Eaton 9E-IN is a true online double conversion UPS system that affordably provides Robust, Reliable, Compact and Efficient Power Management Solution for Mission Critical Application from downtime and data-loss. Eaton 9E-IN delivers more power in limited space and saves energy cost due to its highly efficient design and offers efficiency upto 95% in online mode. Eaton 9E-IN perfectly fits in harsh Indian environmental and power condition and provides much stronger protection on inrush current and it improves its adaptability to grid power condition.

### Key Application :

- Networking and Server Equipment.
- Bio-Metrics/Radiology and Medical Equipment.
- Security and Surveillance System/CCTV and CAMERA.
- Automation and Control Panels.
- Printer/IT-Load and PC's.
- Lifts and Elevators.
- Lighting Equipment.

### Product Features & Performance

- IGBT Based Rectifier True Online Double Conversion
- New Graphical LCD Display.
- Wide Input Voltage window (110 – 275Vac) for Harsh Indian Environmental Condition.
- Double Conversion Efficiency upto 95%.
- Active Input Power Factor Correction 0.99.
- Unity Output Power Factor.
- Inbuilt OVCD (Over Voltage Cut-off device)
- Fully conform coated PCBA adaptable to harsh environment.
- Generator Compatible with Wide Input voltage window
- Frequency Range (40 Hz-70 Hz).
- Digital Charger Technology provide 0-12 A charging current.
- Adjustable Battery no's 16/17/18/19 and 20.
- 50/60 Hz Automatic Frequency Converter Mode.
- 100% load @ 0~40C operating temp.
- Easy understanding LCD for convenient installation setup
- WINPOWER software support virtualization transfer application Intelligent Monitoring options.

# New Eaton 9E-IN 06-10 kW

## Robust, Reliable, Compact and Efficient Power Management Solution



### High Performance and Operation Full Range Unity PF

- Unique in its class
- True Unity PF
- Delivers 11% more power
- Powers more servers
- Higher Power Density

### High Efficiency

- Unmatchable Efficiency upto 95% in Online Mode
- Unmatchable Efficiency >98% in ECO Mode
- Save running expenses

### Perfect I/O parameters

- 3% Input THDi
- 1% output THDV
- 0.995 input PF

### High Flexibility and Adaptability. Flexible Battery Management.

- Meet the long backup time requirement with flexible battery configuration of 16~20 pcs battery configuration
- Adjustable charger current and set the most suitable charger current in a range of 0 to 12 Amps
- Battery capacity and battery run time information can be easily accessed from LCD or software.

### Flexible UPS Configuration.

- Stand alone.
- Hot-Stand by.
- Paralleling upto 3 UPS's.
- Optional Configuration with External Isolation transfer as per demand.

### High Reliability and Availability Enhanced materials

- Double layer FR4 material made power PCBA guarantee high reliability in transportation and operation.
- Conformal Coated Boards for Harsh Indian Environmental and Power Conditions

### High design margin

- No output power derating during 0~40°C ambient temperature
- New digital charger technology reduce charging current ripple and support full-range charging current setting accurately.
- Inbuilt Over Voltage Cut off device as standard Offer.
- Inbuilt Maintenance Bypass Switch support.
- Support USB and RS232 Flash upgrading
- Better Overload Protection 105% Constant.

### Control Panel and Communication Interface Control Panel

- Simplified user setting menu
- Password protected service setting menu
- Up to 100 event log can be read through LCD

### Communication offer

- RS232/USB Inbuilt
- EPO Inbuilt
- Programmable Dry in/Dry out
- Optional SNMP/BMS/AS400 Card



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Robust, Reliable, Compact and Efficient Power Management Solution



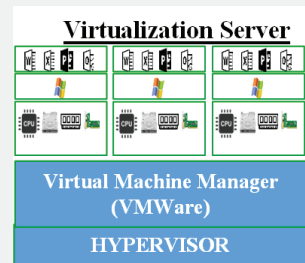
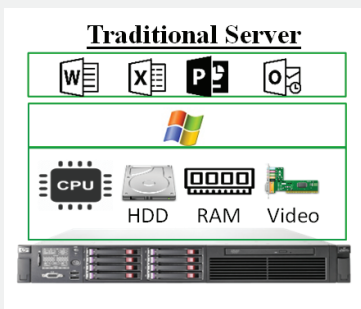
## Communication and Software Solution

Winpower intelligent monitoring solution provides excellent features to help customer manage UPS, trigger virtual machine migration plans to keep business running during power and environmental events.

- Central manage up to 1000 UPS
- Support virtualization transfer during power outage
- Provide mobile App and Web remote monitoring
- Provide server shutdown protection
- Support SMTP/SSL network encryption
- Support RS232/USB/SNMP communication

## Virtualization Transfer Application

**Virtualization Benefit-** Compare to traditional solution, virtualization solution will optimize IT asset and increase scalability, flexibility and efficiency.



## Virtualization Transfer

- Software process will be transferred to other server when UPS power failure happens to ensure customer business continuity.
- Software process will transfer back to original server when UPS power recover

## Technical Specification of Eaton 9E-IN 06-10 kW

| Model Name                                       | 9E6K-IN   | 9E6KS-IN                      | 9E10K-IN                     | 9E10KS-IN                     |
|--|---|-------------------------------|------------------------------|-------------------------------|
| Catalog Name                                     | 9E6K-IN   | 9E6KS-IN                      | 9E10K-IN                     | 9E10KS-IN                     |
| Plant Part Number                                | 9104-12877XT1   | 9104-12878XT1                 | 9104-32673XT1                | 9104-32674XT1                 |
| UPC Code   | 743172091741  | 743172091758                  | 743172091765                 | 743172091772                  |
| INPUT CHARACTERISTICS                            |   |                               |                              |                               |
| Acceptable Input Voltage                         | 110VAC-275VAC   |                               |                              |                               |
| Phase  | Single phase with ground                                  |                               |                              |                               |
| Input voltage range to take 50% load             | 110VAC~275VAC   |                               |                              |                               |
| Input voltage range to take 100% load            | 160VAC~275VAC   |                               |                              |                               |
| Input Power Factor                               | ≥0.995  |                               |                              |                               |
| Input Frequency Range                            | 45-55Hz / 54-66Hz (extendable to 40~70HZ when load < 60%) |                               |                              |                               |
| Generator Set                                    | 1.5 x UPS Rating Power                                    |                               |                              |                               |
| OUTPUT CHARACTERISTICS                           |   |                               |                              |                               |
| Power(VA) max                                    | 6000  | 6000                          | 10000                        | 10000                         |
| Power(W) max                                     | 6000  | 6000                          | 10000                        | 10000                         |
| Power Factor                                     | 1.0   |                               |                              |                               |
| Waveform   | Pure sine wave  |                               |                              |                               |
| Nominal voltage                                  | 208V/220V/230V/240V                                       |                               |                              |                               |
| Voltage Variation                                | ± 1 %   |                               |                              |                               |
| Voltage distortion                               | < 1% THD@ linear load                                     |                               |                              |                               |
|  | <5% @non-linear load                                      |                               |                              |                               |
| OUTPUT Frequency                                 | 45-55Hz / 54-66Hz (extendable to 40~70HZ when load < 60%) |                               |                              |                               |
| EFFICIENCY @ Line mode with battery full charged | 95% @ 230V output with typical load                       |                               |                              |                               |
| EFFICIENCY @ ECO mode                            | ≥98%  |                               |                              |                               |
| OVERLOAD Capability @ line mode                  | 100% < Load ≤ 105%: Constant                              |                               |                              |                               |
|  | 105% < Load ≤ 125%: 10 minutes                            |                               |                              |                               |
|  | 125% < Load ≤ 150%: 30s                                   |                               |                              |                               |
|  | >150% :500ms  |                               |                              |                               |
| BATTERY CHARACTERISTICS                          |   |                               |                              |                               |
| Inner Battery Rating/Type                        | 12V/7AH*16 No's   | NO                            | 12V/9AH*16 No's              | NO                            |
| Back-up Time (full load)                         | 4 minutes typical   | /                             | 2.1 minutes typical          | /                             |
| DC Voltage                                       | 192VDC (192V~240V adjustable)                             |                               |                              |                               |
| Battery-Low Voltage                              | 10.5V/pc @ > 25% Load                                     | 11.4V/pc                      | 10.5V/pc @ > 25% Load        | 11.4V/pc                      |
| Battery Shutdown Voltage                         | 9.6V/pc @ > 25% Load                                      | 10.5V/pc                      | 9.6V/pc @ > 25% Load         | 10.5V/pc                      |
| Charger current                                  | default 1.4A (0~4A adjustable)                            | default 4A (0~12A adjustable) | default 2A (0~4A adjustable) | default 4A (0~12A adjustable) |
| INDICATOR & ALARM CHARACTERISTICS                |   |                               |                              |                               |
| Display  | Multi-language LCD + status LED                           |                               |                              |                               |
| Battery mode                                     | Beeps every four second                                   |                               |                              |                               |
| Battery low                                      | Sounding every second                                     |                               |                              |                               |
| Overload   | Sounding twice every second                               |                               |                              |                               |
| Fault  | Continuous beeping  |                               |                              |                               |
| COMMUNICATION AND INTERFACE CHARACTERISTICS      |   |                               |                              |                               |
| RS232  | YES   |                               |                              |                               |
| USB  | YES   |                               |                              |                               |
| EPO Function                                     | YES   |                               |                              |                               |
| Comm slot box                                    | YES   |                               |                              |                               |
| Comm card  | Optional(NMC/Moudbus/Dry Contact)                         |                               |                              |                               |
| Dry Contact (Dry in/Dry out)                     | YES   |                               |                              |                               |
| MECHANICAL & ENVIRONMENTAL CHARACTERISTICS       |   |                               |                              |                               |
| WxHxD(mm)  | 225*589*452   | 225*348*452                   | 225*589*452                  | 225*348*452                   |
| Net weight (Kg)                                  | 52.7  | 13.0                          | 60.3                         | 15.2                          |
| Wheels   | YES   | NO                            | YES                          | NO                            |
| Operating Temperature Range                      | 0°C ~ 40 °C (40~50°C:50% load)                            |                               |                              |                               |
| Relative Humidity                                | 0 ~ 95% (No condensing)                                   |                               |                              |                               |



# Other Eaton UPS Solutions

## Single Phase UPS Solutions

### PC, Workstation and Home AV UPS

- Eaton Aurora 600 VA-1000 VA Line interactive UPS.

### Network and Server (1:1)

- Eaton 9E-IN 1-10 kVA Online Double Conversion UPS.
- Eaton 9145 1-10 kVA Online Double Conversion UPS.
- Eaton 9130 1-6 kVA Rack and Tower Convertible Online Double Conversion UPS.
- Eaton 9PX 1-6 kVA Rack and Tower Convertible Online Double Conversion UPS.

### Network and Server (3:1)

- Eaton 9145 10-15-20 kVA Online Double Conversion UPS.
- Eaton 9PX 8-11 kVA Rack and Tower Convertible Online Double Conversion UPS.
- Eaton 9155 8-15 kVA Online Double Conversion UPS.
- Eaton 91PS 8-30 kW Online Double Conversion UPS.
- Eaton 93 STS 100/250/400/630/800/1000 & 1250 Amps- Static Transfer Switch



## Three Phase UPS Solutions

### Data Centre and Facility UPS (Monolithic)

- Eaton Blade-UPS 10/24/36/48/60 kW
- Eaton 93E 15/20/30/40/60/80 kVA.
- Eaton 93E 100/120/160/300/400/400 kVA.
- Eaton 9395 275 -1100 kVA
- Eaton 9395P 250-1200 kW



### Data Centre and Facility UPS (Modular)

- Eaton 93PS 8/10/15/20/30/40 kW Modular UPS.
- Eaton 93PR 25-200 kW Modular UPS
- Eaton 93PM 30-500 kVA Modular UPS

## Marine and Industrial UPS solutions

### Single Phase UPS

- Eaton 9130 Marine UPS 1000/2000/3000 VA UPS.
- Eaton 9PX Marine UPS 1500 & 3000 W
- Eaton 9155 Marine UPS 8-15 kVA

### Three Phase UPS

- Eaton 9355 Marine 8-40 kVA.
- Eaton 93PS 8-40 kW
- Eaton 9PHD 30-200 kW.





*Powering Business Worldwide*

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