

New

# Eaton 9E-IN 1/2/3 kVA

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 1/2/3 kVA

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



### Product Snapshot

- Power Rating : 1/2/3 kVA Inbuilt Model @ 0.9 PF  
                  : 1/2/3 kVA XL Model @ 0.8 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 > 91% 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/Server/Storage.
- Wiring Closets.
- Security and Surveillance System.
- Industrial Automation Control.
- Laboratory Equipment.
- ATM/Telecom/Railway Signalling.

### Product Features & Performance

- IGBT Based Rectifier True Online Double Conversion Robust design
- Wide input voltage range: 160~300VAC @ 100% load(linearly derating to 50% load @ 100VAC input).
- Generator Compatible with Wide Input voltage window
- Double Conversion Efficiency >91% & ECO mode efficiency up to 98%
- 100% load @ 0~40C operating temp.
- Active Input Power Factor Correction 0.99.
- O/P power factor 0.9 (O/P power factor 0.8 for long backup model)
- Inbuilt OVCD (Over Voltage Cut-off device)
- Fully conform coated PCBA adaptable to harsh environment
- Offer terminal blocker on 2K/3K rating to connect to big capacity equipment
- Digital Charger Technology provide 02-10 A charging current.
- Easy understanding LCD for convenient installation setup
- WINPOWER software support virtualization transfer application Intelligent Monitoring options.

# New Eaton 9E-IN 1/2/3 kVA

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



### High Performance and Operation Full Range Output PF

- Unique in its class
- True Input PF 0.99
- True Output PF 0.9 for Inbuilt and 0.8 for XL
- Higher Power Density

### High Efficiency

- Unmatchable Efficiency >91% in Online Mode
- Unmatchable Efficiency >98% in ECO Mode
- Save running expenses

### Perfect I/O parameters

- 5% Input THDi
- 2% output THDV
- 0.995 input PF

### 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.

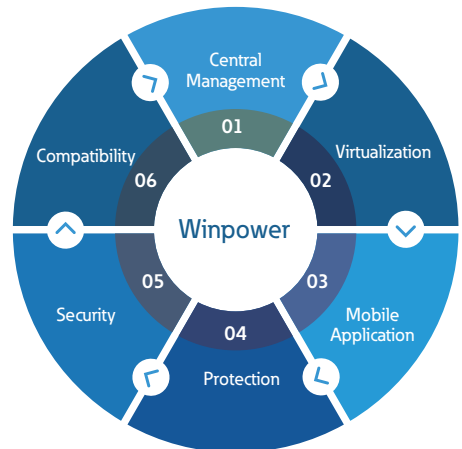
- ✓ Central manage up to 1000 UPS
- ✓ Support virtualization transfer during power outage
- ✓ Provide mobile App and Web remote monitoring
- ✓ Provide server shutdown protection
- ✓ Support SMTP/SSL network encryption
- ✓ Support RS232/USB/SNMP communication

### 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 Over Temperature Protection as standard Offer.
- Better Overload Protection 105% Constant.



# Technical Specification of Eaton 9E-IN 01-02-03 kVA

Model Name	Eaton 9E-IN 1000XL	Eaton 9E-IN 2000XL	Eaton 9E-IN 3000XL	Eaton 9E-IN 1000	Eaton 9E-IN 2000	Eaton 9E-IN 3000
Catalog number	E9E1KXL-IN	E9E2KXL-IN	E9E3KXL-IN	E9E1K-IN	E9E2K-IN	E9E3K-IN
Plant Part Number	9103-53820XT1	9103-7387XT1	9103-8388XT1	9103-53862XT1	9103-73887XT1	9103-83928XT1
UPC Code	743172091802	743172091819	743172091833	743172091840	743172091857	743172091864
<b>INPUT Characteristics</b>						
Acceptable Input Voltage	100VAC-300VAC					
Phase	Single phase with ground					
Transfer Voltage Range (low load)	100VAC-300VAC (50% load)					
Transfer Voltage Range (100% load)	160VAC-300VAC			176VAC-300VAC		
-Line low loss	160VAC/100VAC (±3%)			176VAC/100VAC (±3%)		
-Line low comeback	170VAC/110VAC (±3%)			186VAC/110VAC (±3%)		
-Line high loss	300VAC (±3%)					
-Line high comeback	290VAC (±3%)					
Nominal input current (r.m.s) @ 230V input and battery fully recharged	3.95A	7.73A	11.67A	4.5A	8.8A	13.2A
Inrush Current Limit	8*Irms					
THDI	<9% with R full load @ 230V input			5 % typical, 7% Max with R full load @ 230v input		
Input Power Factor	≥0.99(R FULL LOAD) @ 230V input			≥0.99(R FULL LOAD) @ 230V input		
Input Frequency Range	45-55Hz / 54-66Hz					
Input protection	Breaker					
OVCD	Withstand 440Vac, 24Hours					
Generator Set	2.2 x UPS Rating Power					
<b>OUTPUT Characteristics</b>						
Output Power(VA) max	1000	2000	3000	1000	2000	3000
Output Power(W) max	800	1600	2400	900	1800	2700
Output Power Factor	0.8			0.9		
Output Waveform	Pure sine wave					
Output nominal voltage	200VAC/208VAC/220VAC/230VAC/240VAC					
Output Voltage Variation	±1 %					
Output Transient recovery	100ms (IEC 62040-3 Non-linear load)					
Output Frequency in inverter mode Synchronization range	45-55Hz / 54-66Hz					
Output Frequency Slew rate	1 Hz/s					
Output Frequency in Battery mode	(50/60±0.05) Hz					
Transfer time Inverter Mode to Battery Mode.	0ms					
Transfer Time Inverter Mode to Bypass Mode.	4ms					
Line mode efficiency @ full load with battery fully charged	>88%	>90%	>91%	>89%	>90%	>91%
ECD mode efficiency @ full load with battery fully charged	>97.35%	>97.5%	>97.5%	>97.5%	>98%	>98%
Battery mode efficiency @ full load 12Vdc/Battery	>85%	>86%	>86%	>84.4%	>87.3%	>88.1%
<b>BATTERY Characteristics</b>						
DC Voltage	36VDC	72VDC	95VDC	24VDC	48VDC	72VDC
Charger Current	10 Amps Adjustable			1.5A		
Leakage current	<300uA			<150uA		<150uA
<b>Communication and Interface</b>						
RS232	Yes	Yes	Yes	Yes	Yes	Yes
COM Slot	YES	YES	YES	YES	YES	YES
NMC card	Optional	Optional	Optional	Optional	Optional	Optional
AS400 card(Dry contact card)	Optional	Optional	Optional	Optional	Optional	Optional
Modbus card	Optional	Optional	Optional	Optional	Optional	Optional
Input connection	input powercord 6A	input powercord 16A	Input terminal block	IEC Inet 10A	IEC Inet 10A	Input terminal block
Outlet socket	3 x IEC 10A outlets	3 x IEC 10A outlets, 1 terminal block	1 terminal block	4 x IEC 10A outlets	4 x IEC 10A outlets, 1 terminal block	1 terminal block
<b>MECHANICAL Characteristics</b>						
WxHxD (mm)	102X228X346	102X327X390	102X327X390	144 x 228 x 356	190 x 327 x 399	190 x 327 x 399
Net Weight	3.8Kg	6.0Kg	6.1Kg	9.2Kg	17.4kg	22.7kg
Operating Temperature Range	0°C ~ 40 °C					
Relative Humidity	0 ~ 95% (No condensing)					
Audible Noise	<45dB at front 1m	≤50dB at front 1m		<45dB at front 1m	<40dB at front 1m	



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