

# EATON E Series DX UPS



Reliable Power Protection for today's computing environments.

## Introducing the E Series DX UPS

The E Series® DX UPS double-conversion UPS affordably protects mission critical applications from downtime, data loss and corruption. The double-conversion architecture incorporates rectifier and inverter stages to completely isolate the output power from all input anomalies. By adapting to a wide range of input voltages, the E Series DX avoids battery usage during minor power fluctuations, saving its capacity for times when utility power is completely lost.

### PRODUCT SNAPSHOT

|              |                                  |
|--------------|----------------------------------|
| Power Rating | 1kVA – 20kVA                     |
| Voltage      | 80 to 300 Vac                    |
| Frequency    | 50/60 Hz (Autosensing)           |
| Technology   | High-Frequency Double-Conversion |

### Features

- Double conversion topology assures maximum reliability
- Wide input-voltage range appropriate for the harshest electrical environments
- Standard Models for fixed-run time performance
- Tested for generator compatibility
- Automatic bypass for fault-tolerance
- Optional SNMP communications provides remote network based monitoring
- XL Models for customised, long run-time applications, with fast recharging
- Cold start on battery power allows portable power
- WINPO WER software monitors power conditions
- Intuitive front-panel user interface for consistent status indication

### Double-Conversion Topology

This topology guarantees consistently high level of power quality. Whatever the disturbances on the distribution waveform is regenerated via the AC to DC then DC to AC conversion process. The battery is used only as a backup source.

### Wide Input-Voltage Range

DX UPS have a very wide input voltage range up to 120 – 300 V, optimized to improve compatibility with engine generator sets and reduce the numbers of transfer to battery power. The batteries are used only for the most serious incidents, maximizing available backup time and extending battery life.

### High Performance and Reliability

DX uses High Frequency technology to bring its users a compact UPS that delivers perfect sine wave output.

### Automatic Bypass

In case of overload or UPS fault, DX UPS automatically transfers the load to utility AC power.





## Advanced Communications

An RS232 port is available for easy connection of the UPS to the server. It may be used for local monitoring. An optional SNMP card is also available for network administration.

WINPOWER monitoring software can be used to:

- Alert users of a power event of pre specified condition
- Automatically shuts down your servers
- Remotely supervise and control UPS

## High Performance Battery Charger

The DX battery charger:

- Reduces battery recharge time
- Protects the battery against damaged caused by deep discharge
- Avoids disturbances on the distribution system by correcting the power factor
- Avoids propagating faults on the distribution system (feed back protection)



## Cold Start on Battery Power

This function ensures trouble free start-up of your applications even during a utility power outage.

## Backup Times from 5 minutes to Several Hours

The DX UPS offers a standard backup time of 5-8 minutes on full load to protect the applications. Using XL models allows you to reach several hours of run-time using external batteries.



### E Series DX 6000 Front and Back

#### E SERIES DX 6000

- Input/Output Terminal Block
- Standard RS232 Communication Port
- Optional SNMP Communication Port
- Extended Battery Connector (XL models only)

### E Series DX 1000 Front and Back

#### E SERIES DX 1000

- Output receptacles
- AC Input
- Standard RS232 Communication Port
- Optional SNMP Communication Port
- Extended Battery Connector (XL Models only)



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| TECHNICAL SPECIFICATIONS                          |   |                   |                   |                   |                    |                                |                          |                          |
|---|---|-------------------|-------------------|-------------------|--------------------|--------------------------------|--------------------------|--------------------------|
| High Voltage Models                               |   |                   |                   |                   |                    |                                |                          |                          |
| Part Number                                       | POA-UPS-1000T-EDX   | POA-UPS-2000T-EDX | POA-UPS-3000T-EDX | POA-UPS-6000T-EDX | POA-UPS-10000T-EDX | POA-UPS-10000T-EDXXL-3/1       | POA-UPS-15000T-EDXXL-3/1 | POA-UPS-20000T-EDXXL-3/1 |
| VA / Watts  | 1000 / 700  | 2000 / 1400       | 3000 / 2100       | 6000 / 4200       | 10000 1:1/ 7000    | 10000 3:1/ 7000                | 15000 3:1 / 10500        | 20000 3:1 / 14000        |
| Standard Version                                  | EDX 1000H   | EDX 2000H         | EDX 3000H         | EDX 6000H         | EDX 10000H         | -                              | -                        | -                        |
| XL Version External Battery                       | EDX 1000HXL   | EDX 2000HXL       | EDX 3000HXL       | EDX 6000HXL       | EDX 10KHXL         | EDX10K HXL31                   | EDX15K HXL31             | EDX20K HXL31             |
| Technology  | On Line Double Conversion IGBT with Micro-controller  |                   |                   |                   |                    |                                |                          |                          |
| Input / Output                                    |   |                   |                   |                   |                    |                                |                          |                          |
| Nominal Input Voltage                             | 220 V   |                   |                   | 220 V             |                    | 380 / 220 Vac three-phase      |                          |                          |
| Input Voltage Window                              | 122 to 300 V  |                   |                   | 122 V to 300 V    |                    | 20% / -25%                     |                          |                          |
| Nominal Output Voltage                            | 220 V   |                   |                   | 220 V             |                    | 220 V                          |                          |                          |
| Output Voltage on Battery                         | 220 V   |                   |                   | 220 V             |                    | 220 V                          |                          |                          |
| Frequency   | 50 / 60 Hz, auto-detection  |                   |                   |                   |                    |                                |                          |                          |
| Data line Protection                              | Input / Output jacks included for Telephone/Modem/Internet Line surge protection                    |                   |                   |                   |                    | -                              |                          |                          |
| Output Receptacles                                | 4 each, IEC style   |                   |                   |                   | Hard Wired         |                                |                          |                          |
| Input Connection                                  | Detachable 1.5M IEC input cable (cable included)  |                   |                   |                   | Hard Wired         |                                |                          |                          |
| Battery   |   |                   |                   |                   |                    |                                |                          |                          |
| Battery Quantity (Standard Model Only)            | 3   | 8                 | 8                 | 20                |                    | User-Supplied External Battery |                          |                          |
| Charge Capacity External Battery (Standard Model) | 8 Hours to recover 90% capacity   |                   |                   |                   |                    | User-Supplied External Battery |                          |                          |
| Battery Monitoring (Standard Model Only)          | Battery Replacement Indicator   |                   |                   |                   |                    | User-Supplied External Battery |                          |                          |
| Start-On-Battery (Standard Model Only)            | Unit can be started without being connected to AC utility power – Allows for portable power source. |                   |                   |                   |                    | User-Supplied External Battery |                          |                          |
| User Interface                                    |   |                   |                   |                   |                    |                                |                          |                          |
| Visual  | Operation on mains, battery, inverter, bypass and load/battery-charging levels                      |                   |                   |                   |                    |                                |                          |                          |
| Alarm and Controls                                |   |                   |                   |                   |                    |                                |                          |                          |
| Audible and Visual Alarms                         | Battery Operation Mode, Low Battery, General Fault, Overload, On Bypass                             |                   |                   |                   |                    |                                |                          |                          |
| Control   | Two buttons for ON/OFF and Alarm Silence  |                   |                   |                   |                    |                                |                          |                          |
| Communications/Management                         |   |                   |                   |                   |                    |                                |                          |                          |
| Power Management Software                         | WINPOWER power management software, included on CD  |                   |                   |                   |                    |                                |                          |                          |
| Connection Type                                   | Standard RS232  |                   |                   |                   |                    |                                |                          |                          |
| SNMP Interface                                    | Optional SNMP card  |                   |                   |                   |                    |                                |                          |                          |



| TECHNICAL SPECIFICATIONS CONTINUED  |                    |                    |                    |               |               |                     |                     |                     |
|-------------------------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------------|---------------------|---------------------|
| Environment                         |                    |                    |                    |               |               |                     |                     |                     |
| Operating Temperature               | 0°C ~ 40 °C        |                    |                    |               |               |                     |                     |                     |
| Humidity                            | < 95%              |                    |                    |               |               |                     |                     |                     |
| Noise Level                         | <50dB (others)     |                    |                    | <55dB         |               | <60dB               |                     |                     |
| Standards                           |                    |                    |                    |               |               |                     |                     |                     |
| Certification                       | CE, ISO 9001       |                    |                    |               |               |                     |                     |                     |
| Dimensions and Weights W x H x D mm |                    |                    |                    |               |               |                     |                     |                     |
| Dimensions                          | 145 x<br>200 x 400 | 145 x<br>200 x 465 | 192 x<br>340 x 460 | -             | -             | 260 x 717 x 570     |                     |                     |
| Weight (kg)                         | 14<br>(XL:7)       | 32<br>(XL:15)      | 35.5<br>(XL:16)    | 84<br>(XL:35) | 93<br>(XL:38) | (XL:39)             | (XL:55)             |                     |
| E SERIES Battery Runtime            |                    |                    |                    |               |               |                     |                     |                     |
|                                     | 1000               | 2000               | 3000               | 6000          | 10000<br>1:1  | 10000<br>3:1        | 15000<br>3:1        | 20000<br>3:1        |
| Battery Runtime<br>(1/2 Load)       | 14 min             | 31 min             | 16 min             | 20 min        | 16 min        | External<br>Battery | External<br>Battery | External<br>Battery |
| Battery Runtime<br>(Full Load)      | 7 min              | 11 min             | >5 min             | 8 min         | >5 min        | External<br>Battery | External<br>Battery | External<br>Battery |

