

Reliable Power Protection for Today's Computing Environments.

E Series DX Uninterruptible Power System

Product Focus



Product Snapshot

Power Rating:	1kVA-20kVA
Voltage:	80 to 300 Vac
Frequency:	50/60 Hz (auto-sensing)
Technology:	High-frequency double-conversion

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.

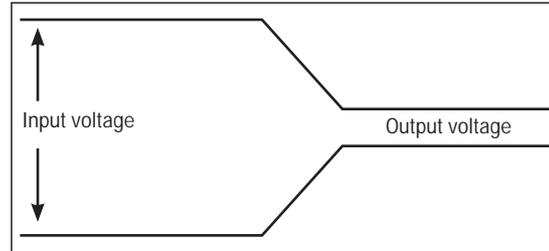
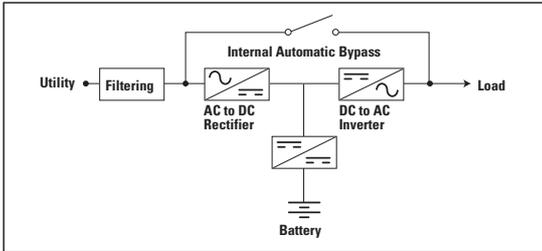


Features

- 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 customized, long run-time applications, with fast recharging
- Cold start on battery power allows portable power
- WINPOWER software monitors power conditions
- Intuitive front-panel user interface for consistent status indication

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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.

High performance and reliability

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

Wide Input-voltage range

DX UPS have a very wide input voltage range up to 120-300V, 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 back-up time and extending battery life.

Automatic bypass

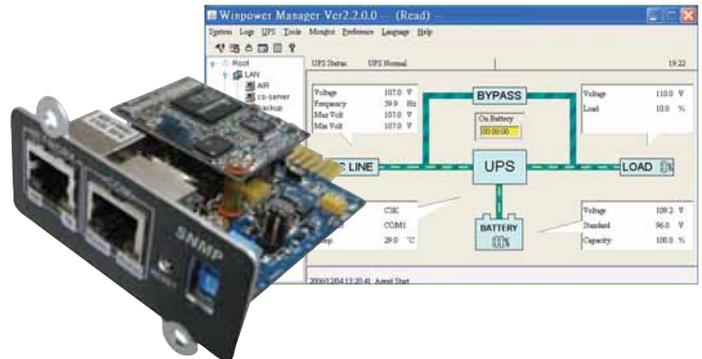
In case of overload or UPS fault, DX UPS automatically transfers the load to utility AC power.

Advanced communications

An RS232 port is available for easy connection of the UPS to the server. It maybe 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 or pre specified condition
- Automatically shut down your servers
- Remotely supervise and control UPS



High-performance battery charger

The DX battery charger:

- reduces battery recharge time
- protects the battery against damage caused by deep discharge
- avoids disturbances on the distribution system by correcting the power factor
- avoids propagating faults on the distribution system (back feed protection)

Cold start on battery power

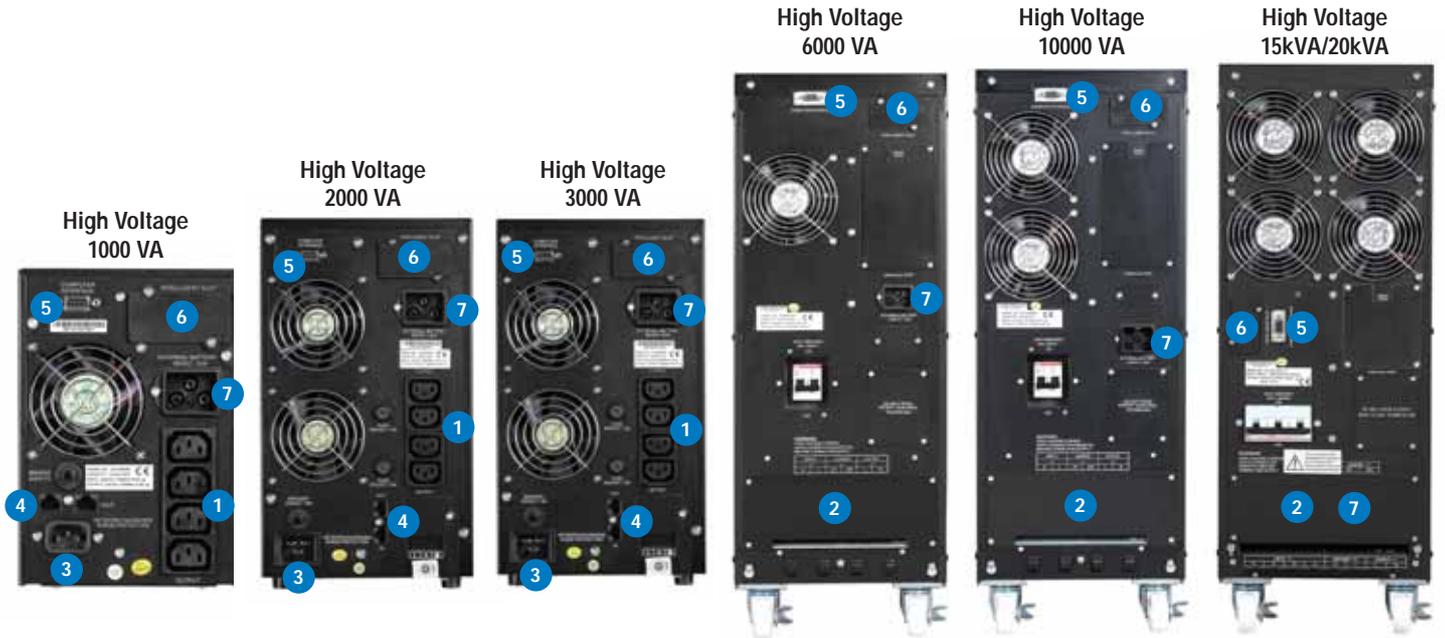
This function ensures trouble free start-up of your applications even during a utility power outage.

Backup times from 5 minutes to several hours

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 runtime using external batteries.

E SERIES DX REAR PANEL

1. Output receptacles
2. Input/Output Terminal Block
3. AC Input
4. Modem Surge Protection
5. Standard RS232 Communication Port
6. Optional SNMP Communication Port
7. Extended Battery Connector (XL models only)



E SERIES DX BATTERY RUNTIME CHART

HV Model	1000	2000	3000	6000	10000 1:1	10000 3:1	15000 3:1	20000 3:1
Battery Runtime 1/2 load	14min	31min	16min	20min	16min	External bat	External bat	External bat
Battery Runtime Full load	7min	11min	>5min	8min	>5min	External bat	External bat	External bat

E SERIES DX UPS TECHNICAL SPECIFICATIONS - HIGH VOLTAGE MODELS

Model Numbers/Watts	DX 1000/700	DX 2000 HV/1400	DX 3000/2100	DX 6000/4200	DX 10000 1:1/7000	DX 10000 3:1/7000	DX 15000 3:1/10500	DX 20000 3:1/14000
High Volt - Standard Version	EDX1000H	EDX2000H	EDX3000H	EDX6000H	EDX10000H	N/A		
High Volt - XL Version External Battery	EDX1000HXL	EDX2000HXL	EDX3000HXL	EDX6000HXL	EDX10KHXL	EDX10KHXL31	EDX15KHXL31	EDX20KHXL31

Technology

On Line Double Conversion IGBT with Micro-controller

Input / Output

Nominal Input Voltage	220V				380 / 220 Vac three-phase			
Input Voltage Window	110V to 296V			176V to 276V +/-3%		20% / -25%		
Nominal Output Voltage	220V				220V			
Output Voltage on Battery	220V				220V			
Frequency	50/60Hz, auto-detection							
Voltage Regulation	+/- 1 - 4%							
Data Line Protection	Input / Output jacks included for Telephone / Modem / Internet Line surge protection					N/A		
Output receptacles	4 ea, IEC style				Hard Wired			
Input receptacles	IEC C13	IEC C19			Hard Wired			

Battery

Battery Quantity (standard model only)	3	8	8	20	User-Supplied External Battery			
Charge Capacity (standard model only)	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

Environment

Operating Temperature 0°C ~ 40°C

Humidity <95%

Noise Level <50dB <55dB <60dB

Standards

Certification CE, ISO 9001

Dimensions and weights W x H x D mm

Dimensions	145x200x400	145x200x465	192 x 340 x 460	260 x 717 x 570				
Weight Kg	14 (XL: 7)	32 (XL: 15)	35.5 (XL: 16)	84 (XL: 35)	93 (XL: 38)	(XL: 39)	(XL: 55)	

*Input voltage range depends on UPS load. Please refer to the detailed specifications for input voltage range for the estimated UPS load.
In the interests of continuous product improvement all specifications are subject to change without notice.