

Reliable power protection for today's computing environments.

E Series DX UPS



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 customised, 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



Powering Business Worldwide

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, optimised 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, maximising available backup time and extending battery life.

Automatic bypass

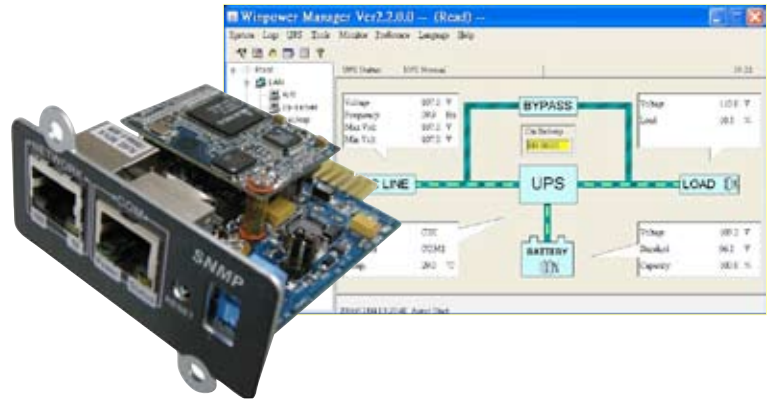
In case of overload or UPS fault, DX UPS automatically transfers the load to utility AC power.

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 run-time using external batteries.

E SERIES DX BATTERY RUNTIME CHART

	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

DX 1000 VA FRONT



DX 1000 VA REAR



- 1. Output receptacles
- 2. AC Input
- 3. Standard RS232 Communication Port
- 4. Optional SNMP Communication Port
- 5. Extended Battery Connector (XL models only)

DX 6000 VA FRONT



DX 6000 VA REAR



- 1. Input/Output Terminal Block
- 2. Standard RS232 Communication Port
- 3. Optional SNMP Communication Port
- 4. Extended Battery Connector (XL models only)
- 5. Parallel Port

E SERIES DX UPS TECHNICAL SPECIFICATIONS - HIGH VOLTAGE MODELS

MODEL	DX 1000	DX 2000	DX 3000	DX 6000	DX 10000	DX 1000	DX 15000	DX 20000
VA/Watts	1000/700	E Series DX 2000 HV/1400	3000/2100	6000/4200	10000 1:1/7000	10000 3:1/7000	15000 3:1/10500	20000 3:1/14000
Standard Version	EDX1000H	EDX2000H	EDX3000H	EDX6000H	EDX10000H	N/A		
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	220V	380 / 220 Vac three-phase
Input Voltage Window	122 to 300V	122V to 300V	20% / -25%
Nominal Output Voltage	220V	220V	220V
Output Voltage on Battery	220V	220V	220V
Frequency	50/60Hz, auto-detection		
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 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 only)	8 hours to recover 90% capacity				User-Supplied
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 (others) <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)



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Printed in AUS 9135FXA
November 2008