

E Series DX-LCD Uninterruptible Power Systems

Advanced Power Protection for Today's Computing Environments



The E Series[®] DX-LCD double-conversion UPS affordably protects mission critical applications from downtime, data loss and corruption.

The compact double-conversion architecture incorporates rectifier and inverter stages to protect the output power from all input anomalies.

By adapting to a wide range of input voltages, the E Series DX-LCD avoids battery usage during minor power fluctuations, saving its capacity for times when utility power is completely lost.

Product Snapshot

Power Rating	: 1 - 10 kVA
Configuration	: Tower
Voltage	: 220V
Frequency	: 50/60 Hz (auto-sensing)
Technology	: High-frequency double conversion online

Features

- On-line double conversion topology assures maximum reliability
- Intuitive front-panel LCD user interface for consistent status indication
- Wide input-voltage range appropriate for the harshest electrical environments
- 0.8 Power Factor output
- Standard Models for fixed-run time performance
- Tested for generator compatibility
- Automatic bypass for fault-tolerance
- Optional SNMP communications
- Cold start on battery power allows portable power
- WINPOWER software monitors power conditions
- XL Models for extended battery solutions
- Optional paralleling kit for 6kVA/10kVA models



On-line double-conversion topology

This topology guarantees consistently high level of power quality. Whatever the supply disturbances, the output 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-LCD uses High Frequency technology to bring its users a compact UPS that delivers perfect sine wave output.

Wide Input-voltage range

DX-LCD 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 back-up time and extending battery life.

Automatic bypass

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

Integral Maintenance Bypass (Optional)

6kVA models feature an optional maintenance bypass switch that enables maintenance whilst load is powered.

N+X redundancy

More capacity and availability can be achieved by parallel connection of E Series DX 6kVA to 10kVA systems, accommodating paralleling of up to three modules for N+1 redundancy or capacity.

Backup times from 5 minutes to several hours

DX-LCD 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.

Cold start on battery power

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

High-performance battery charger

The DX-LCD 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)
- XL models feature increase charging capacity for long run time applications



Powering Business Worldwide

E Series DX-LCD Internal Battery Model Runtime Chart

	EDX1000H-LCD	EDX2000H-LCD	EDX3000H-LCD	EDX6000H-LCD	EDX10000H-LCD
Battery Runtime 1/2 load	14min	14min	15min	12min	
Battery Runtime Full load	5min	5min	5min	4min	

*Battery backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

E Series DX-LCD UPS Technical Specifications

Model Numbers: VA/Watts	1000VA/800W	2000VA/1600W	3000VA/2400W	6000VA/4800W	10000VA/8000W
Standard Model (Internal Battery)	EDX1000H-LCD	EDX2000H-LCD	EDX3000H-LCD	EDX6000H-LCD	—
XL Model (Large Charger + External Battery)	EDX1000HXL-LCD	EDX2000HXL-LCD	EDX3000HXL-LCD	EDX6000HXL-LCD	EDX10KHXL-LCD
Technology	On Line Double Conversion IGBT with Micro-controller				
Input / Output					
Nominal Input Voltage	220Vac 1 Phase				
Input Voltage Window	115 - 300Vac (load dependant)			120 - 274Vac (load dependant)	
Input Power Factor	0.98			0.99	
Frequency & Frequency Range	50Hz/60Hz auto-sensing, 46-54Hz or 56-64Hz				
Nominal Output Voltage	220V				
Output Voltage on Battery	220V				
Overload performance	110% 30 seconds, 150% 10 seconds			125% for 1 min, 150% 10 sec	
Data Line Protection	Network/Fax/Modem line surge protection (RJ45)			N/A	
Input Connection	C14 10A	C20 16A	C20 16A	Hard Wired	
Output Connections	(4) IEC C13 10A	(6) IEC C13 10A	(4) IEC C13 10A & Hard Wired	Hard Wired	

Battery					
Battery Quantity/Type (Standard)	3 x 12V (7Ah)	6 x 12V (7Ah)	8 x 12V (7Ah)	16 x 12V (7Ah)	—
Battery Quantity (XL)	3 x 12V	6 x 12V	8 x 12V	16 x 12V	
Re-charge time to 90% capacity	5 hours				
Start-On-Battery	UPS can be started without being connected to AC utility power - allows for portable power source				

User Interface	
Visual	LED mimic diagram + LCD Display with measurements (Input/Output/Bypass V & Hz, Battery V & % capacity & remaining time and level indicator, Load % & level Indicator, Alarm codes)
Control	Two buttons (one button for on/off and one for Test / Alarm silence)

Communications / management	
Power Management Software	WinPower power management software, included on CD
Connection Type	Standard RS232 (DB9)
SNMP Interface / AS 400 Card	Intelligent Slot for optional SNMP card / AS 400 Relay Card (MOD BUS available on EDX10KHXL-LCD)

Environment				
Operating Temperature	0°C ~ 40°C			
Humidity	20-90% Non Condensing			
Noise Level	<45dB	<50dB	<50dB	<55dB
Standards	EMS and EMI complies with IEC61000-4-2 Level 4, IEC61000-4-3 Level 3, IEC61000-4-4 Level 4, IEC61000-4-4 Level 4, EN55022 Class B			
Safety				Complies with GB4943-2001

Dimensions & Weights W x H x D mm					
(Standard Models)	145 x 220 x 355	190 x 318 x 383	190 x 318 x 433	248 x 500 x 616	—
(XL Models)	145 x 220 x 355	190 x 318 x 383	190 x 318 x 433	240 x 500 x 460	
Weight (Standard/XL) kg	12 / 6.5	23 / 10.5	31 / 14	60 / 20	— / 21

*Specifications subject to change without notice.

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