

E Series DX Uninterruptible Power Systems

Reliable Power Protection for Today's Computing Environments



The E Series® DX double-conversion online UPS 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 (high voltage)
Frequency : 50/60 Hz (auto-sensing)
Technology : High-frequency double-conversion online

Features

- On-line 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 provide 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

On-line 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 transfer the load to utility AC power.

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 offer a standard backup time of 5 minutes on full load to protect the applications. Using XL models allow you to reach several hours of runtime using external batteries.



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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

*Battery backup time is approx figure. Battery backup is proportional to number of power cycles and few other factors. Hence the battery time can vary to large extent based on the conditions.

E SERIES DX UPS TECHNICAL SPECIFICATIONS - HIGH VOLTAGE MODELS

Model Numbers/Watts	E Series DX 1000/700	E Series DX 2000 HV/1400	E Series DX 3000/2100	E Series DX 6000/4200	E Series DX 10000 1:1/7000	E Series DX 10000 3:1/7000	E Series DX 15000 3:1/10500	E Series DX 20000 3:1/1400
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			220V		380 Vac three-phase		
Input Voltage Window	122 to 300V (High Voltage Models)			122V to 300V (High Volt)		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 (High Volt Models)	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 (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	<45dB (LV 1K-1.5K) / <50dB (others)			<55dB		<60dB		
Standards								
Certification	CE, UL (Low Voltage: 1K-3K only), 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 (High volt models) 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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For more product information please contact



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