E Series

E Series DX Uninterruptible Power System



Product snapshot

Power Rating:	1 kVA–20 kVA
Voltage:	60 to 138 VAC (low voltage) 80 to 300 VAC (high voltage)
Frequency:	50/60 Hz (auto-sensing)
Technology:	High-frequency double-conversion online

Reliable Power Protection for Today's Computing Environments

Introducing the E Series DX UPS

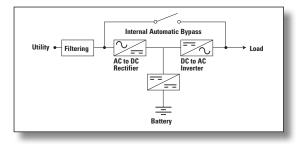
The E Series DX UPS double-conversion online UPS from Eaton[®] affordably protects mission-critical applications from downtime, data loss and corruption. The double-conversion architecture incorporates rectifier and inverter stages to completely isolate the output power from all input anomalies. By adapting 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.

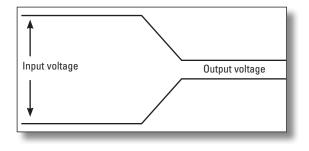
Features

- · Online 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









Online double-conversion topology

This topology guarantees a consistently high level of power quality. Any disturbances on the distribution waveform are 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.



DX UPS have a very wide input voltage range of 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

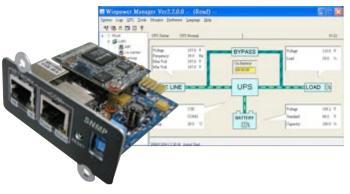
In case of overload or UPS fault, the DX UPS automatically transfers the load to utility AC power.

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 or pre-specified condition
- · Automatically shut down your servers
- · Remotely supervise and control UPS solutions



High-performance battery charger

The DX battery charger:

- Reduces battery recharge time
- · Protects the battery against damage caused by deep discharge
- Prevents 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.

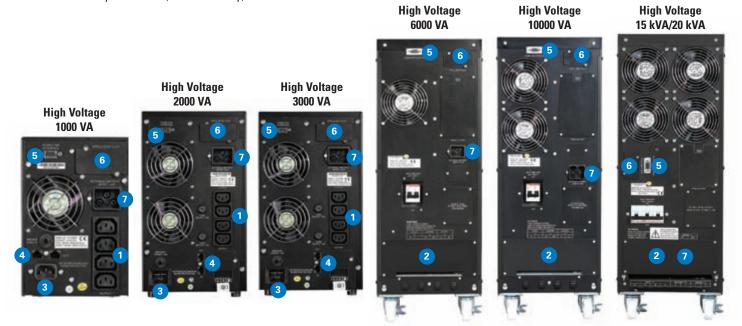
Backup times from five minutes to several hours

DX UPS offers a standard backup time of five to eight minutes on full load to protect the applications. XL models allow users to reach several hours of runtime using external batteries.

E SERIES DX BATTERY RUNTIME CHART

L SERIES DA DATTER		CHAN						
LV Model	1000	1500	3000	6000	10000 1:1	10000 3:1	15000 3:1	20000 3:1
Battery Runtime 1/2 load	14min	14min	17.5min	23min	12min	External bat	External bat	External bat
Battery Runtime Full load	5min	5min	5min	8min	5min	External bat	External bat	External bat
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

- 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)



Low Voltage 6000 VA





Low Voltage 1000 VA











Low Voltage 3000 VA

Low Voltage

www.eaton.com/eseries 1.800.356.5794

E SERIES DX UPS TEC	HNICAL SPI	ECIFICATIONS - HIGH	VOLTAGE MO	DELS					
Model Numbers/Watts	E Series DX 1000/700	E Series DX 1500 LV/1050 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 3:1/14000	
Low Volt - Standard Version	EDX1000L	EDX1500L	EDX3000L	EDX6000L	EDX10KL		N/A		
Low Volt - XL Version External Battery	EDX1000LXL	EDX1500L XL	EDX3000L XL	EDX6000LXL	EDX10KLXL		N/A		
High Volt - Standard Version	EDX1000H	EDX2000H	EDX3000H	EDX6000H	EDX10KH		N/A		
High Volt - XL Version External Battery	EDX1000HXL	EDX2000HXL	EDX3000HXL	EDX6000HXL	EDX10KHXL	EDX10KHXL31	EDX15KHXL31	EDX20KHXL31	
Technology									
			Online double	e-conversion IGBT	with micro-controller				
nput / Output						1			
Nominal Input Voltage		115V (Low-Voltage Models) 220V (High Voltage Models)			220V (All Models)		380 / 220 Vac three-phase		
Input Voltage Window	t t	50V to 138V (Low Voltage Mode 122V to 300V (High Volt)	els)	185V +/- 3% to 266 +/- 3% (Low Volt) 20% / -25% 122 to 300V (High Voltage Models) 20% / -25%					
Nominal Output Voltage		115V (Low-Voltage Models) 220V (High Voltage Models)		240V / 120V (Low Voltage Models) 220V 220V (High Voltage Models) 220V					
Output Voltage on Battery		115V (Low-Voltage Models)240V / 120V (Low Voltage Models)220V220V (High Voltage Models)220V (High Voltage Models)220V							
Frequency				50/60Hz, auto-de					
Data Line Protection		/ output jacks included for tele		ernet line surge p	rotection	Llauda dural	N/A		
Output Receptacles (High Volt)		EC style (two output cables included)	uded) 6 NEMA		Hardwired				
Output Receptacles (Low Volt)		IEMA 5-15 style IEC 10A style,	5-15 style IEC 16A (IEC 16A	Hardwired					
(High Volt Models)		h computer power cable	cable included) Standard Model:	Hardwired					
Input Connection (Low Volt Models)		EC 10A style, h computer power cable	Attached L5-30 input plug (cable included) XL Model: Hardwired	e Hardwired					
Battery									
Battery Quantity (Standard Model Only)	3 4 (1500 Low voltage) 8 (2000 High voltage) 8 20 User-Supplied External					Battery			
Charge Capacity (Standard Model Only)	Five hours to 90% (LV 1K-3K std.) / 7 Hrs to 90% (LV 6K std.) / User-Supplied External Battery Eight hours to recover 90% capacity (LV 10K and HV models std.)					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						Battery		
User Interface									
Visual		Opera	ation on mains, batte	ry, inverter, bypas	s and load/battery-cha	rging levels			
Alarm and Controls									
Audible and Visual Alarms		Bat			neral Fault, Overload, (On Bypass			
Control			Two but	tons for On/Off ar	nd Alarm Silence				
Communications / Managem	ent								
Power Management Software			WINPOWER pov	-	software, included on (JD	-		
Connection Type				Standard RS					
SNMP Interface				Optional SNM	card				
Environment				000 400	0				
Operating Temperature				0°C ~ 40°	L				
Humidity			oral	<95%	-EE-dD	1	~604D		
Noise Level	<45dB (LV 1K-1.5K) / <50dB (others) <55dB <60dB								
Standards				.ow Voltage: 1K-3	K ophyl ISO 0001				
Certification			UE, UL (L	.ow voltage: TK-3	N UTIIY), ISU 9001				
Dimensions and weights W Dimensions (High Volt Models)	1	1/5v200v/ce	102 x 240 x 460	1		260 y 717 y E70			
	145x200x400	145x200x465	192 x 340 x 460 192 x 340 x 460	200		260 x 717 x 570	NI/A	NI/A	
Dimensions (Low Volt Models)	145x200x400	145x200x465 32 (XL: 15)		300 x 84 (XL: 35)	830 x 655 93 (XL: 38)	N/A (VL: 20)	N/A	N/A 55)	
Weight (High Volt Models) Kg	14 (XL: 7)		35.5 (XL: 16)	· · · ·		(XL: 39)	1	1	
Weight (Low Volt Models) Kg	14 (XL: 7)	18.7 (XL: 9)	35.5 (XL: 16)	132 (XL: 85)	153 (XL: 98)	N/A	N/A	N/A	

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