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

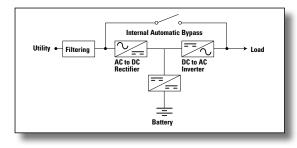
Introducing the E Series DX UPS

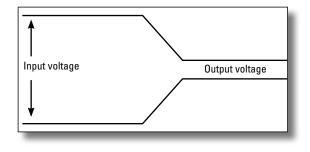
The E Series DX UPS double-conversion online UPS from Eaton[®] affordably protects mission-critical applications from downtime, data loss and corruption. The double-conversion architecture incorporates rectifier and inverter stages to completely isolate the output power from all input anomalies. By adapting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

Wide input voltage range

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

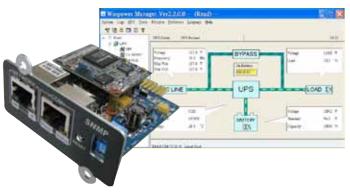
In case of overload or UPS fault, the DX UPS automatically transfers the load to utility AC power.

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

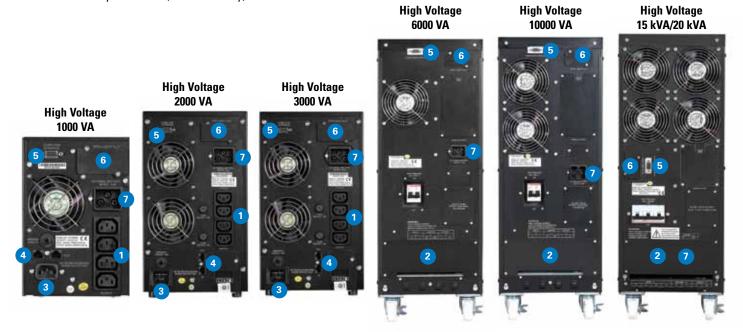
DX UPS offers a standard backup time of five to eight minutes on full load to protect the applications. XL models allow users to reach several hours of runtime using external batteries.

LV Model	1000	1500	3000	6000	10000 1:1	10000 3:1	15000 3:1	20000 3:1
Battery Runtime 1/2 load	14 min	14 min	17.5 min	23 min	12 min	External bat	External bat	External bat
Battery Runtime Full load	5 min	5 min	5 min	8 min	5 min	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	14 min	31 min	16 min	20 min	16 min	External bat	External bat	External bat
Battery Runtime Full load	7 min	11 min	>5 min	8 min	>5 min	External bat	External bat	External bat

E SERIES DX BATTERY RUNTIME CHART

- 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 1000 VA



Low Voltage 1500 VA

Low Voltage 6000 VA

Low Voltage 10000 VA





E SERIES DX UPS TECHNICAL SPECIFICATIONS - HIGH VOLTAGE MODELS

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	-conversion IGBT	with micro-controller				
Input / Output									
Nominal Input Voltage		115V (Low-Voltage Models) 220V (High Voltage Models)			All Models)	380 / 220 Vac three-phase			
Input Voltage Window	6	60V to 138V (Low Voltage Models) 122V to 300V (High Volt)			:66 +/- 3% (Low Volt) gh Voltage Models)) 20% / -25%			
Nominal Output Voltage		115V (Low-Voltage Models) 220V (High Voltage Models)			ow Voltage Models) Voltage Models)	220V			
Output Voltage on Battery		115V (Low-Voltage Models) 220V (High Voltage Models)			ow Voltage Models) Voltage Models)	220V			
Frequency				50/60Hz, auto-de	tection				
Data Line Protection	Input ,	/ output jacks included for tel	ephone / modem / int	ernet line surge p	rotection		N/A		
Output Receptacles (HV)	4 IE	C style (two output cables inc	luded)			Hardwired			
Output Receptacles (LV)	4 N	EMA 5-15 style	6 NEMA 5-15 style			Hardwired			
nput Connection (HV)		IEC 10A style, IEC 16A (IEC 16A for use with computer power cable cable included)				Hardwired			
Input Connection (LV)		C 10A style, computer power cable	Standard Model: Attached L5-30 input plug (cable included) XL Model: Hardwired		Hardwired				
Battery (Standard Model O	nly)								
Battery Quantity	3	4 (1500 Low voltage) 8 (2000 High voltage)	8		20	User-	Supplied Exte	rnal Bat	tery
Charge Capacity		Five hours to 90% (LV 1K-3K std.) / 7 Hrs to 90% (LV 6K std.) / User-Supplied External Eight hours to recover 90% capacity (LV 10K and HV models std.)						rnal Bat	tery
Battery Monitoring		Battery replacement indicator User-							tery
Start-On-Battery	Unit can be sta	arted without being connected	d to AC utility power -	- allows for porta	ble power source	User-	Supplied Exte	rnal Bat	tery
User Interface									
Visual		Oper	ration on mains, batte	ry, inverter, bypas	s and load/battery-cha	rging levels			
Alarm and Controls									
Audible and Visual Alarms		Ba	ttery Operation Mode	, Low Battery, Gei	neral Fault, Overload, C)n Bypass			
Control			Two but	tons for On/Off an	d Alarm Silence				
Communications / Manage	ment								
Power Management Software			WINPOWER pow	ver management s	oftware, included on C	D			
Connection Type		Standard RS232							
SNMP Interface				Optional SNMF	card				
Invironment									
Operating Temperature				0°C ~ 40°	2				
Humidity		<95%							
Noise Level	<45dB (LV 1K-1.5K) / <50dB (others) <55dB <60dB								
Standards									
Certification			CE, UL (L	ow Voltage: 1K-3I	K only), ISO 9001				
Dimensions and weights V	V x H x D mm								
Dimensions (HV Models)	145 x 220 x 400	192 x 340 x 460	192 x 340 x 460			260 x 717 x 570			
Dimensions (LV Models)	145 x 220 x 400	145 x 200 x 465	192 x 340 x 460	300 x	830 x 655	N/A	N/A		N/A
Weight (HV 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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35.5 (XL: 16)

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18.7 (XL: 9)

14 (XL: 7)

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For more information on the DX UPS, visit **Eaton.com/dxups**

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132 (XL: 85)

153 (XL: 98)

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Weight (LV Models) Kg