



100 - 400 kVA

DS POWER X SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

3 LEVEL TECHNOLOGY IGBT RECTIFIER DSP CONTROL

The new DX Power range UPS uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impeding its performance. With the DS Power range, efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.

GENERAL SPECIFICATIONS

- Transformerless UPS topology
- 3 Level rectifier and inverter
- High input power factor
- High efficiency up to 96.0%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input
- 512 events memory (512 events 45000 alarms)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated charge system (optional)
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional graphical panel
- Optional usb flash memory
- Full digital structure
- Small footprint
- Ecomode operation (optional)
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output voltage/frequency/range
- Split by-pass input (second input)
- Output DC leakage protection
- Separate DSP for inverter control
- Separate DSP for the PFC
- 3 level battery protection
- High charge current capacity
- Charge/discharge current indicator
- Advanced remote control features
- Manufactured according to EC Directive; EN62040
- 2 years warranty
- 5 years spare parts support





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TECHNICAL SPECIFICATIONS

MODEL	DX3100	DX3120	DX3160	DX3200	DX3250	DX3300	DX3400	
Power (kVA)	100	120	160	200	250	300	400	
INPUT								
Voltage	380/400 VAC 3P + N + G \pm 20% (at 100% load) / - 40% (at 70% load)							
Frequency	50Hz / 60Hz, \pm 5%							
Power factor (at 100% load)	\geq 0.99							
THDI (*)	\leq 3%							
By-pass voltage	380/400 VAC 3 Phase + N, \pm 10 (adjustable)							
Input voltage THD	\leq 10%							
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator							
OUTPUT								
Power (kW)	100	120	160	200	250	300	400	
Power factor	1.0							
Voltage	380/400 VAC 3P + N, \pm 1% (415 VAC optional)							
Frequency	50Hz / 60Hz							
Frequency tolerance	Line synchronized: \pm 2% (adjustable) / Free running: \pm 0,1%							
Efficiency	up to 95.5%		up to 96%					
Crest factor	3:1							
Overload protection	at 100% - 125% load : 10 min. - at 125% - 150% load :1 min. - > at 150% load : by-pass							
Other protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting							
Voltage THD	\leq 2% (at 100% linear load)							
BATTERY								
Type	VRLA AGM / GEL / NiCd							
Nominal voltage	\pm 360 VDC							
Float / End of discharge voltage	\pm 405 VDC / \pm 300 VDC							
Battery cabinet	External							
Battery ambient temperature	25°C							
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)							
Battery test	Standard every 72 hours (adjustable)							
GENERAL								
Standards	EN62040-1, EN62040-2, EN62040-3							
User interface	5 vector buttons, Buzzer, TFT panel							
Indicators	P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time							
Advanced	Self diagnostics, 3 maintenance time indicators, Calibration over RS232,operating hour meter							
Communication	2xRS232 serial ports, 4 standard and 8 optional DRY contact alarm relays							
Inputs	EPO input, Interactive battery panel input, Genset input							
Genset kit	Standard (programmable)							
Software	Standard T-Mon UPS Management Software (3 clients + 1 server management)							
Alarm logging	Standard:with time & date 512 events							
Protections	Power module over-temperature, Overcurrent, Temperature high alarm							
Operating temperature range	0°C - 40°C							
Protection degree	IP20							
Relative humidity	90% max. (non-condensing)							
Altitude	< 1000m above sea level							
Acoustic noise	< 62 dBA		< 65 dBA			< 67 dBA		
Weight without batteries (kg)	210	220	262	270	440	575	655	
Dimensions (mm) HxWxD	1440x475x890				1900x880x775		1900x1250x775	
OPTIONS								
Different input / output voltage	Please ask							
Transformer	Galvanic isolation transformer at the input & output (external)							
Software	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 10-50-100-200 clients							
Adaptors	SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP, GSM/GPRS Modem, Comport multiplexer							
Parallel operation	up to 8 units							

(*) Depending on power and input/output conditions