



•INDUSTRY•



•MEDICAL•



•DATA CENTER•



•TRANSPORT•



•MALLS•

DS POWER X

UNINTERRUPTIBLE POWER SUPPLIES

100-250kVA

3 PHASE IN / 3 PHASE OUT

➔ IGBT RECTIFIER / INVERTER

➔ 3-LEVEL TECHNOLOGY

➔ DSP CONTROL



TOWER



POWER FACTOR



UPS ONLINE

SERVICE / TECH.
SUPPORT

ECO FRIENDLY



DS Power X Online UPS uses the latest DSP technology, which can be programmed to suit a wide variety of electrical environments without impeding its performance. It stands out with its stylish design, high power density (250KVA in less than 0.5m² area) and less noisy operation than its counterparts. As a state-of-the-art product, the input and output side have been designed as 3-Level to maximize efficiency, reliability and functionality. This technology not only creates a significant increase in MTBF, but the DSP's ability to accurately process signals at very high speed allows all UPS subsystems to be controlled with greatly increased precision.

GENERAL SPECIFICATIONS

- kVA = kW (Output PF = 1.0)
- Transformerless ups technology
- 3 DSP controlled modular structure
- High power density
- Separate main control board program for rectifier and inverter
- 3-Level rectifier, inverter technology and fully digital structure
- Less electronic components and SMD technology
- Low input current total harmonic distortion (THDi)
- High input power factor
- High efficiency up to 96.0%
- Selectable input/output voltage/frequency/range
- Static and maintenance by-pass switch
- High charge current capacity
- Ecomode operation (optional)
- Split by-pass input (dual input)
- Advanced TFT front panel
- Optional 0.8 and 0.9 output power factor (PF) option
- Cold start function
- EMI/RFI input and output filter
- ISO9001, ISO14001 compliant production
- Advanced diagnostics for the input
- 3 level battery protection
- Temperature compensated charge system
- Output current limitation
- Output DC leakage protection
- Output short circuit and overload protection
- External REPO input
- 512 events memory (46.000 alarm)
- Clock and calender (battery supported)
- Automatic battery test, remaining battery time indicator
- Static and maintenance by-pass switch
- 2 RS232 serial ports and 4 programmable dry contact outputs
- Optional 12 dry contact outputs
- Optional SNMP, MODBUS and Remote Monitoring Panel
- View device operating parameters
- Advanced remote control features
- 2 years warranty



TECHNICAL SPECIFICATIONS

MODEL	DX3100	DX3120	DX3160	DX3200	DX3250
Power (kVA)	100	120	160	200	250
INPUT					
Voltage	380/400 VAC 3P + N + G ± 20% (at 100% load) / - 40% (at 70% load)				
Frequency	50Hz / 60Hz, ± 10%				
Power factor (@ 100% load)	≥ 0.99				
THDI (*)	≤ 3%				
By-pass voltage	380/400 VAC 3 Phase + N, ± 10 (adjustable)				
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator				
OUTPUT					
Power (kW)	100	120	160	200	200
Power factor (**)	1.0				0.8
Voltage	380/400 VAC 3P + N, ± 1%				
Frequency	50Hz / 60Hz				
Frequency tolerance	Line synchronized: ± 2% (adjustable) / Free running: ± 0.1%				
Efficiency	up to 95.5%		up to 96.0%		
Crest factor	3:1				
Overload protection	100% - 125% load: 10 min, 125% - 150% load: 1 min, - > 150% load: by pass				
Other protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting				
Voltage THD	≤ 2% (linear load), ≤ 5% (non-linear load)				
BATTERIES					
Type	VRLA AGM / GEL / NiCd				
Nominal voltage	± 360 VDC				
Float / End of discharge voltage	± 405 VDC / ± 300 VDC				
Battery cabinet	External				
Battery ambient temperature	25°C				
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)				
Automatic testing	Standard every 72 hours (adjustable)				
GENERAL					
User interface	TFT touch panel, 5 vector buttons, Buzzer				
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				
Temperature range	0°C - 40°C				
Protection degree	IP20				
Relative humidity	90% max. (non-condensing)				
Altitude	< 1000m above sea level				
Acoustic noise	< 62dBA		< 65 dBA		
Weight (kg)	210	220	262	270	295
Dimensions (mm) HxWxD	1440x475x890				
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 50-100-200 clients				
Adaptors	SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), TCP/IP, GSM/GPRS Modem, Comport multiplexer				
Parallel operation	up to 8				

(*) Depending on power and input/output conditions

(**) Please ask for PF 0.8 and 0.9