

DS POWER SERIES (200kVA - 500kVA)

Uninterruptible Power Supplies

IGBT RECTIFIER DSP CONTROL

The new DS 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
- Low input current total harmonic distortion (THD)
- High input power factor
- High efficiency up to 94%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input
- 192 events memory (192 events 4500 alarms)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated charge system
- Regenerative backfeed function
- 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
- 2 years warranty
- 10 years spare parts support
- Manufactured according to EC Directive; EN62040
- Full digital structure
- Small footprint
- Economode operation
- 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

Reliable Power

Technical Specifications

MODEL	DS3200	DS3250	DS3300	DS3400	DS3500
Power (kVA)	200	250	300	400	500
INPUT					
Voltage	380/400 VAC 3P + N + E ± 20% (415 VAC +15%, - 25% optional)				
Frequency	50Hz. / 60Hz. selectable, ± 5%				
Power factor	> 0.99				
Harmonic current distortion (THDI) (*)	< 3%				
By-pass voltage	380/400 VAC 3P + N , 4 Wires, ± 10%				
Voltage distortion	< 10%				
Protection	Fuses, Voltage & Frequency tolerance, Input power limit,Phase sequency indicator				
OUTPUT					
Power (kW)	180	225	270	360	400
Power factor	0,9				0,8
Voltage	380/400 VAC 3 Phase + N , ± 1% (415 optional)				
Frequency	50Hz. / 60Hz. selectable				
Frequency tolerance	Line synchronized: ± 2% / Free running: ± 0,1% (adjustable)				
Efficiency	up to 95%				
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				
THD (at 100% linear load)	< 3%				
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					
Standards	EN62040-1, EN62040-2				
User interface	TFT 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, Over current, Temperature high alarm				
Temperature range	0°C - 40°C				
Protection degree	IP20				
Relative humidity	90% max. (noncondensed)				
Altitude	< 1000m. above sea level				
Acoustic noise	< 68 dBA		< 72 dBA		
Weight without batteries (kg)	482	550	638	737	780
Dimensions (mm) HxWxD	1900x880x775		1900x1250x775		2020x1250x775
OPTIONS					
Different input / output voltage	Please ask				
Transformer	Galvanic isolation transformer at the input & output				
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), USB Alarm Logger, TCP/IP ,GSM/GPRS Modem, Comport multiplexer				
Parallel operation	up to 8				

(*) Depending on power and input/output conditions