



200 - 650 kVA

DS POWER SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

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
- 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
- 10 years spare parts support
- 2 years warranty





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TECHNICAL SPECIFICATIONS

MODEL	DS3200	DS3250	DS3300	DS3400	DS3500	DS3550	DS3650
Power (kVA)	200	250	300	400	500	550	650
INPUT							
Voltage	380/400 VAC 3P + N + G ± 20% (415 VAC +15%, - 25% optional)						
Frequency	50Hz / 60Hz , ± 5%						
Power factor (at 100% load)	≥ 0.99						
(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	495	585
Power factor	0,9					0,8	
Voltage	380/400 VAC 3 Phase + N , ± 1% (415 optional)						
Frequency	50Hz / 60Hz						
Frequency tolerance	Line synchronized: ± 2% / Free running: ± 0,1%						
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						
Voltage THD	< 3% (at 100% linear load)						
BATTERIES							
Type	VRLA AGM / GEL / NiCd						
Nominal voltage	± 360 VDC (2x30 batteries)						
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, EN62040-3						
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. (non-condensing)						
Altitude	< 1000m. above sea level						
Acoustic noise	< 68 dBA			< 72 dBA			
Weight without batteries (kg)	482	550	638	737	780	1452	
Dimensions (mm) HxWxD	1900x880x775		1900x1250x775		2040x1250x840		1940x1610x1050
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