



•INDUSTRY•



•MEDICAL•



•DATA CENTER•



•TRANSPORT•



•MALLS•

DS POWER

UNINTERRUPTIBLE POWER SUPPLIES

500-600kVA

3 PHASE IN / 3 PHASE OUT

➔ TRANSFORMERLESS UPS TECHNOLOGY

➔ IGBT RECTIFIER

➔ DSP CONTROL



TOWER



POWER FACTOR



UPS ONLINE

SERVICE / TECH.
SUPPORT

ECO FRIENDLY

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

- Low input current total harmonic distortion (THD)
- Output power factor 1.0 for 500-600kVA
- Transformerless UPS topology
- High input power factor
- High efficiency up to 95%
- 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
- EMI/RFI input and output filter

- 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



TECHNICAL SPECIFICATIONS

MODEL	DS3500	DS3600
Power (kVA)	500	600
INPUT		
Voltage	380/400 VAC 3P + N + G ± 20% (415 VAC +15%, - 25% optional)	
Frequency	50Hz / 60Hz, ± 10%	
Power factor (@100% load)	≥ 0.99	
THDI (*)	≤ 3%	
By-pass voltage	380/400 VAC 3P + N, ± 10%	
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator	
OUTPUT		
Power (kW)	500	600
Power factor (**)	1.0	
Voltage	380/400 VAC 3 Phase + N, ± 1% (415 VAC optional)	
Frequency	50Hz / 60Hz	
Frequency tolerance	Line synchronized: ± 2% / Free running: ± 0.1%	
Efficiency (@100% load)	up to 95%	
Crest factor	3:1	
Overload capacity (***)	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% (at 100% linear load)	
BATTERIES		
Type	VRLA AGM / GEL / NiCd	
Nominal voltage	2x30 (±30): 60 pieces	
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 class	IP20	
Relative humidity	90% max. (non-condensing)	
Altitude	< 1000m. above sea level	
Acoustic noise	< 72 dBA	
Net weight (kg)	1452	
Dimensions (mm) HxWxD	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), TCP/IP, GSM/GPRS Modem, Comport multiplexer	
Parallel operation	up to 8 units	

(*) Depending on power and input/output conditions

(**) Please ask for different output power factors

(***) The waiting times for excessive loads vary depending on the ambient temperature.