

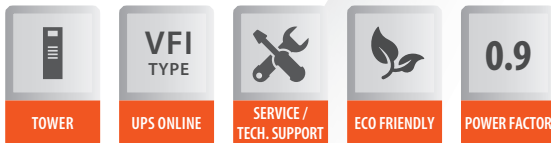
DS POWER 300T

400-600kVA

Inverter Isolation Transformer

IGBT Rectifier

DSP Control



DS Power 300T Online UPS uses the latest DSP technology, which can be programmed to suit a wide variety of electrical environments without impeding its performance. The efficiency, reliability and functionality have been raised to levels unattainable with old analog technology. 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. Thanks to its built-in inverter isolation transformer, it guarantees safe operation and provides uninterrupted energy for local networks, communication systems, sensitive medical devices, smart engineering measurement devices and industrial automation systems.

GENERAL SPECIFICATIONS

- Galvanic isolation at output
- 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
- Manufactured according to EC Directive; EN62040
- 5 years spare parts support
- 2 years warranty

TECHNICAL SPECIFICATIONS

MODEL	DS3400T	DS3600T
Power (kVA)	400	600
INPUT		
Voltage	380/400 VAC 3P + N + G \pm 20% (415 VAC +15%, - 25% optional)	
Frequency	50Hz / 60Hz, \pm 10%	
Power factor	\geq 0.99	
THDI (*)	\leq 3%	
By-pass voltage	380/400 VAC 3 Phase + N, 4 Wires, \pm 10%	
Voltage distortion	\leq 10%	
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator	
OUTPUT		
Power (kW)	360	540
Power factor	0.9	
Voltage	380/400 VAC 3 P + N, \pm 1% (415 VAC optional)	
Frequency	50Hz / 60Hz	
Frequency tolerance	Line synchronized: \pm 2% / Free running: \pm 0.1%	
Efficiency	up to 94%	
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	\leq 2% (at 100% linear load)	
BATTERIES		
Type	VRLA AGM / GEL / NiCd	
Nominal voltage	\pm 336 VDC (2x28 batts)	
Number of batteries	2x28 batteries	
Float charge voltage	\pm 378 VDC	
End of discharge voltage	\pm 280 VDC	
Battery cabinet	External	
Battery ambient temp.	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	Colored 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	< 72dBA	
Net weight (kg)	1497	2800
Dimensions (mm) HxWxD	1900x1250x1055	1980x3055x1050
OPTIONS		
Different input/output voltage	Please ask	
Transformer	Galvanic isolation transformer at input (optional)	
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		
(**) The waiting times for excessive loads vary depending on the ambient temperature.		