



•INDUSTRY•



•MEDICAL•



•DATA CENTER•



•TRANSPORT•



•MALLS•

# DS POWER 300T

## UNINTERRUPTIBLE POWER SUPPLIES

### 600kVA

3 PHASE IN / 3 PHASE OUT

➔ 3-LEVEL TECHNOLOGY

➔ IGBT RECTIFIER

➔ DSP CONTROL



TOWER



UPS ONLINE



POWER FACTOR



SERVICE / TECH.  
SUPPORT



ECO FRIENDLY



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
- 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
- Manufactured according to EC Directive; EN62040
- 5 years spare parts support
- 2 years warranty



# TECHNICAL SPECIFICATIONS

MODEL	DS3600T
Power (kVA)	600
<b>INPUT</b>	
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
<b>OUTPUT</b>	
Power (kW)	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)
<b>BATTERIES</b>	
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)
<b>GENERAL</b>	
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)	2800
Dimensions (mm) HxWxD	1980x3055x1050
<b>OPTIONS</b>	
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.	