

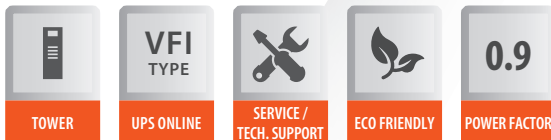
# DS POWER 300HT

## 10-500kVA

**Inverter Isolation Transformer**

**IGBT Rectifier**

**DSP Control**



DS Power 300HT Online UPS uses the latest DSP technology, which can be programmed to suit a wide variety of electrical environments without impeding its performance. With the 3-Level topology, 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

- Inverter isolation transformer
- 3 DSP controlled modular structure
- Separate main control board advantage for rectifier and inverter
- 3-Level technology and fully digital structure
- Less electronic components and SMD technology
- Low input current total harmonic distortion (THD)
- High input power factor
- High efficiency up to 94%
- Selectable input/output voltage/frequency range
- Static and maintenance by-pass switch
- High charge current capacity
- Eco Mode operation (optional)
- Split by-pass input (dual input)
- Advanced TFT front panel (40-500kVA)
- Cold start function
- Compliant with IEC EN62040 directive
- Conforms to CE, TSE and GOST standards
- ISO9001, ISO14001 compliant production
- Advanced control at the input
- 3 level battery protection
- Temperature compensated charge system
- Output current limitation
- Output DC leakage protection
- Output short circuit and overload protection
- External REPO input
- 512 events memory (46.000 alarm)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- 2 RS232 serial ports and 4 programmable dry contact outputs
- Optional 12 dry contact outputs
- Optional SNMP, MODBUS and Remote Monitoring Panel
- Viewing device operating parameters
- Advanced remote control features
- User and central service password-protected security
- 2 years warranty

## TECHNICAL SPECIFICATIONS

MODEL	DS310HT	DS315HT	DS320HT	DS330HT	DS340HT	DS360HT	DS380HT	DS3100HT	DS3120HT	DS3160HT	DS3200HT	DS3250HT	DS3300HT	DS3400HT	DS3500HT		
Power (kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300	400	500		
<b>INPUT</b>																	
Voltage	380/400 VAC 3F + N + Toprak, $\pm$ %20																
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%																
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator																
<b>OUTPUT</b>																	
Power (kW)	9	13,5	18	27	36	54	72	90	108	144	180	225	270	360	400		
Power factor	0.9														0.8		
Voltage	380/400 VAC 3F + N, $\pm$ %1																
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																
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	4 lines LCD panel, Mimic leds, 5 vector buttons, Buzzer					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	< 57dBA			< 62 dBA			< 64 dBA			< 68 dBA			72 dBA				
Net weight (kg)	187	198,5	244	270	393	457	536	539	595	647	910,5	1150	1283	1497	2402		
Dimensions (mm) HxWxD	1040x400x815				1440x515x855				1770x825x855				1900x1250x1055				2020x2250x770
<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																	