



•INDUSTRY•



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# DS POWER H

## UNINTERRUPTIBLE POWER SUPPLIES

### 300-500kVA

#### 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 H Online UPS uses the latest DSP technology to 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 legacy 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.



## GENERAL SPECIFICATIONS

- Transformerless UPS topology
- 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 (THDi)
- High input power factor
- High efficiency up to 95%
- 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
- Optional 0.8 and 1.0 output power factor (PF)
- Cold start function
- EMI/RFI input and output filter
- 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
- Output current limitation
- Output DC leakage protection
- External REPO input
- 512 events memory (46.000 alarm)
- Clock and calender (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	DS3300H		DS3400H		DS3500H	
Power (kVA)	300		400		500	
INPUT						
Voltage	380/400 VAC 3P + N + G ± 20% (at 100% load) / - 40% (at 70% load)					
Frequency	50Hz / 60Hz, ± 10%					
Power factor	≥ 0.99 (at 100% load)					
THDI (*)	≤ 3%					
By-pass voltage	380/400 VAC 3 Phase + N, ± 10%					
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator					
OUTPUT						
Power (kW)	270		360		450	
Power factor (**)	0.9					
Voltage	380/400 VAC 3F + N, ± %1					
Frequency	50Hz / 60Hz					
Frequency tolerance	Line synchronized: ± 2% (adjustable) / 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	≤ 2% (linear load), ≤ 5% (non-linear load)					
BATTERIES						
Type	VRLA AGM / GEL / NiCd					
Number of batteries	2x30 (± 30): 60 pieces					
Charge voltage	2x405 VDC					
End of discharge voltage	2x300 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, Overcurrent, 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					
Weight (kg)	635		680		890	
Dimensions (mm) HxWxD	1975x880x848		2000x1243x874			
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 PF 0.8 and 1.0

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