

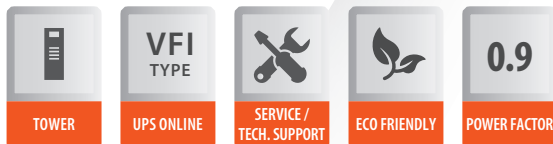
DS POWER H-T

10-150kVA

Internal Output Isolation Transformer

Flexible Battery Powered Operation

IGBT Rectifier and DSP Control



DS Power H-T 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. The galvanic isolation transformer used on the output side provides additional protection for your loads. Thanks to its flexible battery-operated structure, it minimizes ownership costs such as storage, commissioning and maintenance.

GENERAL SPECIFICATIONS

- 3 DSP controlled modular structure
- Internal galvanic output isolation transformer
- The advantage of separate motherboards for the 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 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 LCD panel and mimic led diagram
- 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
- Number of flexible batteries between 52-60
- Heat compensated charging
- 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	DS310H-T	DS315H-T	DS320H-T	DS330H-T	DS340H-T	DS360H-T	DS380H-T	DS3100H-T	DS3150H-T	
Power (kVA)	10	15	20	30	40	60	80	100	150	
INPUT										
Voltage	380/400 VAC 3P + N + G \pm 20% (at 100% load) / - 40% (at 70% load)									
Frequency	50Hz / 60Hz, \pm 10%									
Power factor	\geq 0.99 (at 100% load)									
THDI (*)	\leq 3%									
By-pass voltage	380/400 VAC 3 Phase + N, \pm 10%									
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator									
OUTPUT										
Power (kW)	9	13,5	18	27	36	54	72	90	135	
Power factor	0.9									
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% (@ 100% linear load)									
BATTERIES										
Type	Maintenance-free dry type									
Number of batteries	52-60 pieces (Adjustable)									
Charge voltage	702 VDC									
End of discharge voltage	521 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	4 lines LCD panel, Mimic leds, 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 (standard), IP42 (optional)									
Relative humidity	90% max. (non-condensing)									
Altitude	< 1000m above sea level									
Acoustic noise	< 57dBA		< 62dBA			< 64dBA		< 68dBA		
Weight (kg)	187	198,5	244	270	393	457	536	539	647	
Dimensions (mm) HxWxD	1040x400x815				1440x515x855			1770x825x855		
OPTIONS										
Different input / output voltage	Please ask									
Transformer	Galvanic isolation transformer at the input									
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.										