

DS 300 H-HB Series

10-400kVA INDUSTRIAL UPS

The new DS 300 HB & HB UPS range delivers cost effective power protection for a wide variety of critical applications like offices, communication networks, commercial and industrial environments. The modern UPS architecture, that incorporates three independent DSP circuits combined with 3-level topology and low Total Harmonic Distortion (THDi), is ideal for installations that require high switching frequencies, complex filtering and superior efficiency. The units can be used as a single, standalone UPS or as a multi-cabinet UPS system with up to 8 units connected in parallel, achieving a total power capacity of up to 3.2 MW.



3 phase in / 3 phase out

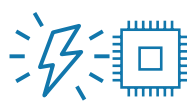
ENHANCED POWER PROTECTION



TELECOM



BUILDING POWER
INFRASTRUCTION



CRITICAL
LOADS



HEAVY
INDUSTRY



DATA
CENTERS



TRANSPORT
INFRASTRUCTURE



HOSPITALS

GENERAL SPECIFICATIONS

- Transformerless UPS topology
- 3 Level topology
- High input power factor
- High efficiency up to 95%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input
- 512 events memory (512 events 45.000 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 LCD graphical panel
- Optional USB flash memory
- Full digital structure design
- Small footprint
- Eco mode operation (optional)
- Output current limiting
- Advanced diagnostics
- Configurable 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
- 10 years spare parts support
- 2 years warranty

DS 300 H - HB SERIES

INDUSTRIAL UPS *3 phase in / 3 phase out* 10-400 kVA



H Models / P.F = 0.9	DS310H	DS315H	DS320H	DS330H	DS340H	DS360H	DS380H	DS3100H	DS3300H	DS3400H	
Tescom Codes	UPS.0645	UPS.0660	UPS.0646	UPS.0647	UPS.0648	UPS.0649	UPS.0650	UPS.0651	UPS.0656	UPS.0321	
HB Models / P.F = 1	DS310HB	DS315HB		DS330HB	DS340HB	DS360HB	DS380HB	DS3100HB	DS3300HB	DS3400HB	
Tescom Codes	UPS.0734	UPS.0736		UPS.0835	UPS.0555	UPS.0556	UPS.0557	UPS.0558	UPS.0616	UPS.0642	
Power (kVA)	10	15	20	30	40	60	80	100	300	400	
INPUT											
Voltage	380/400 VAC 3P + N + G ± 20% (at 100% load) / - 40% (at 70% load)										
Frequency	50Hz / 60Hz , ± 5%										
Power factor (at 100% load)	≥ 0.99										
THDI (*)	≤ 3%										
By-pass voltage	380/400 VAC 3 Phase + N, ± 10%										
Voltage distortion	≤ 10%										
Protections	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator										
OUTPUT											
Power (kW) H models P.F=0.9	9	13.5	18	27	36	54	72	90	270	360	
Power (KW) HB models P.F=1	10	15	20	30	40	60	80	100	300	400	
Power factor	0.9 (0,8 and 1 optional)										
Voltage	380/400 VAC 3P + N, ± 1% (415 VAC optional)										
Frequency	50Hz / 60Hz										
Frequency tolerance	Line synchronized: ± 2% (adjustable) / Free running: ± 0,1%										
Efficiency	up to 95%										
Crest factor	3:1										
Overload capacity	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										
VoltageTHD	≤ 3% (at 100% linear load)										
BATTERY											
Type	VRLA AGM / GEL / NiCd										
Number of batteries	2x30 (±30) : 60 pieces										
Charge voltage	2x405 VDC										
End of discharge voltage	2x300 VDC										
Battery cabinet	Internal					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, Optional TFT panel										
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 ranges	0°C - 40°C										
Protection degree	IP20										
Relative humidity	90% max (non-condensing)										
Altitude	< 1000m above sea level										
Acoustic noise	< 57 dBA			< 62 dBA			< 65 dBA	< 68 Dba			
Net weight (kg)	87	87	91	100	173	197	209	220	635	680	
Dimensions (mm) HxWxD	1040x400x815					1440x515x855			1900x1250x775		
OPTIONS											
Transformer	Galvanic isolation transformer at the input & output (internal)										
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), USB Alarm Logger, TCP/IP, GSM/GPRS Modem, Comport multiplexer										
Parallel operation	up to 8 units										