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# Multi Dialog MDT

## MDT 60-80 kVA three/three-phase



Multi Dialog MDT 60-80 kVA



The MULTI DIALOG series includes 60-80 kVA three-phase models, and uses double conversion on-line technology (VFI). The load is powered continuously by the inverter with a filtered, Stabilised and regulated sinewave supply. The input and output filters considerably increase the immunity of the load to mains disturbances and surges, even on bypass.

### LOW POWER CONSUMPTION

- On-line Mode: up to 92% efficiency can be achieved due to the use of IGBT technology, increasing to 98% in one of the other operating modes
- Economy Mode: uses Line Interactive (VI) technology to power less critical loads from the mains supply for certain periods
- Smart Mode: if the mains supply is out of range, the UPS will power the load from the inverter as an On-line UPS. When the mains supply returns to within range again, the UPS will monitor this for a certain period before selecting Line Interactive operation

### MAXIMUM RELIABILITY AND AVAILABILITY

- Connect up to 8 units in parallel or N+1 redundancy, of even different power ratings

BATTERY BOXES	BB 576-26M	BB BB576-B1	BB 576-65M	BB 576-80M	BB 576-100M
MOD. MDT	60	60-80	60-80	60-80	60-80
Dimensions (mm) h x w x d					



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#### HIGH LEVEL BATTERY RELIABILITY

- Automatic battery test
- Recharge compensated for temperature
- Automatic or manual rapid charge (boost) – duration programmable

#### SENSITIVE SUPPLY COMPATIBLE

For power supply sources that are particularly sensitive to harmonics (generator sets or transformers of low power with respect to that of the UPS) it is often a good idea to take action to limit the harmonics injected back into the supply by the UPS.

MULTI DIALOG AF series have an active filter and use high frequency Insulate Gate Bipolar Transistor (IGBT) Technology with Digital Signal Processor (DSP) control.

The Active Filter helps to reduce harmonics generated by the UPS into the supply which could disrupt the operation of upstream generators and transformers whose rating is closely matched to that of the UPS

- Advanced technology  
Multi Dialog AF systems reduce harmonic distortion of the phase and neutral currents. The Digital Signal Processor (DSP) and the “current mode” instantly control and monitor the input current to maintain a perfect sinewave with 4% harmonic distortion
- Maximum efficiency  
Multi Dialog AF systems have low input distortion even at low loads and their overall efficiency is not affected by generator frequency variations or line impedance
- Reduction of neutral current  
Multi Dialog AF systems reduce the input neutral current by up to 3.5 times their nominal rating to help avoid oversizing input protections and conductors
- Maximum reliability  
Multi Dialog AF systems are extremely reliable. Overall UPS performance is unaffected should the harmonic filter fail.
- Excellent capabilities  
input distortion: (THDi) 4%  
input power factor: > 0.99

Multi Dialog can also be supplied without the Active Filter for installations less sensitive to current harmonics.

#### OTHER CHARACTERISTICS

- Suitable for powering capacitive loads such as blade servers, without any reduction of the active power, from 0.8 leading to 0.8 lagging
- High level diagnostics: event log with 128 messages, states, measurements and alarms - available from the built-in LCD in several languages
- Reduced noise levels: high frequency inverter bridge
- Back feed protection standard: to avoid energy feeding back into the mains supply
- Power factor correction (input power factor, close to 1)
- By pass may be deactivated to allow operation as a frequency converter (at 50 or 60 Hz)
- Emergency operation: the UPS can be set to operate only when the mains fails (for emergency lighting)

#### ADVANCED COMMUNICATION

- Compatible with TeleNetGuard for remote maintenance
- Advanced, multi-platform communication for all operating systems and network environments: PowerShield<sup>3</sup> monitoring and shut-down software included, for Windows 2008, Vista, 2003, XP; Mac OS X, Linux, Novell and most popular Unix operating systems.
- The UPS is supplied with a communications cable for ‘Plug and Play’ PC connection
- Double RS232 serial ports
- Network adapter slot for SNMP agent
- Emergency Power Off (EPO) shutdown input contact
- Remote control mimic panel

MDT MODELS	MDT60 - AF	MDT80 - AF
<b>INPUT</b>		
Rated voltage	400 Vac Three-phase + N	
Voltage range	± 20%	
Frequency range	45 ÷ 65 Hz	
Power factor	>0.99	
Current distortion	THDI 4%	
<b>BY PASS</b>		
Rated voltage	400 Vac	
Number of phases	3 + N	
Permitted voltage range	± 15% (selectable from ± 5% a ± 25%)	
Rated frequency	50/60 Hz	
Permitted frequency range	± 2% (selectable from ± 1% a ± 5%)	
<b>OUTPUT</b>		
Rated power (kVA)	60	80
Active power (kW)	48	64
Number of phases	3 + N	
Rated voltage (V)	380 - 400 - 415 V selectable	
Voltage regulation range	346 ÷ 422 V	
Crest factor (I <sub>peak</sub> /I <sub>rms</sub> )	3: 1	
Waveform	Sinewave	
Distortion with linear load	2%	
Static stability	± 1%	
Dynamic stability	± 5% in 10 ms	
Frequency	50/60 Hz selectable	
Overload	125% 150% of the rated current for 10'/1'	
<b>BATTERIES</b>		
Type	Lead, flooded and VRLA AGM / GEL; NiCd	
Recharge time	4-8 h	
<b>ENVIRONMENTAL</b>		
Weight (kg)	180	192
Dimensions (HxWxD) (mm)	1400 x 500 x 740	
Input	Three-phase + N	
Remote signalling	Volt free contacts	
Remote controls	EPO and Bypass	
Communication	Double RS232/C + remote contacts + communication interface slot	
Operating temperature	0°C / +40°C	
Relative humidity	< 95% non condensing	
Colour	Dark grey RAL 7016	
Noise	< 56 dBA at 1 m	< 60 dBA at 1 m
Protection rating	IP20	
Efficiency Smart Mode	> 98.5 %	
Compliance	EN 62040-1 EMC EN 62040-2 EN 62040-3	