

MHD 10-20kVA



**Online double-conversion 10-20kVA
with 1-phase (10kVA) input
or 3-phase (10, 15, 20kVA) input**

The MHD 10-20kVA with its fast DSP (Digital Signal Processing) controller offers a new sine-wave quality and high performance in controlling input & output. Digitalisation of all circuits accelerates, optimises and reduces the number of components and increases the standard lifetime of important parts.

The reliability and availability of the power line has been improved considerably compared to existing switching technologies.

A wide range of easy-to-use extension options enable the UPS to be integrated easily for any application. Its modern design and compact dimensions make it suitable for all kinds of offices.

Features & Advantages

- UPS-classification VFI-SS-111 (IEC 62040-3)
- Online Double-Conversion
- Multiple Microprocessor design base
- Detachable control panel with LCD
- Wide input voltage range
- Optionally parallel design
- DC start and automatic self-diagnostic function
- High capacity of battery through extension packs
- Slot for alternatively RS232, SNMP or relay card
- High efficiency design
- Low heat dissipation in long term operation
- 24 months' warranty



MHD 10kVA display



UPS electronics rear view

Specifications

Model Capacity		MHD 10kVA 1-1 10KVA/7KW	MHD 10kVA 3-1 10 kVA/7kW	MHD 15 kVA 3-1 15kVA/10.5kW	MHD 20kVA 3-1 20kVA/14kW
Input	Nominal Voltage	Single ph. 230Vac	3 ph. 380Vac		
	Voltage Range	176~276Vac	304~478Vac		
	Frequency	50Hz or 60Hz +/- 8%			
	Power Factor	≥0.98	≥0.95		
Output	Voltage	220 / 230 / 240Vac +/- 1%			
	Frequency	Synchronized (Line mode), 50Hz or 60Hz +/- 0.5Hz (Battery Mode)			
	Wave-form	True Sine wave			
	Distortion	2% (Linear Load), 6% (Non-Linear Load)			
	Crest Ratio	3:1			
Battery	Type	Maintenance free sealed lead-acid battery			
	Capacity	12V / 9Ah * 20pcs	On request	On request	On request
	Back-up	4min	On request	On request	On request
	Built-In Charger	2A	4,2A	4,2A	4,2A
	Charger (Option)	4.2A	On request	On request	On request
	Charging Voltage	274Vdc +/- 0.5V	On request	On request	On request
	Recharger Time	7-8 hrs to 90% of full capacity after full load discharge			
Transfer Time	AC-DC to Bypass	0 ms			
Indicator Removable	LCD	UPS status, I/P&O/P Voltage& Frequency, Load %, Battery Voltage & %, Temperature, Model Spec., Event Log			
	LED	Normal (Green), Warning (Yellow), Fault (Red)			
Audible Alarm	Battery Mode	Beeping every 4 seconds			
	Battery Low	Beeping every seconds			
	Overload	Beeping twice per second			
	Fault	Beep Continuously			
Interface	RS-232 Interface	Yes			
	SNMP Intelligent Slot (Option)	Power management via optional SNMP management and web browser			
Certificates	engineer standards	CE			
Environment	Temperature	0-40 degree C; 32-104 degree F			
	Humidity	20-90% non-condensing			
	Acoustic Noise (at 1M)	< 55dBA	< 55dBA	< 60dBA	< 60dBA
Weight	w/ battery	94kgs	Batteries on principle in external cabinet		
	w/o battery	38kgs	38,5kgs	55kgs	55kgs
Dimension	(HxWxD)mm	717x260x570	717x260x570	717x260x570	717x260x570