

# MH 6000 RM



## 6000VA online double-conversion with single-phase output

MH 6000 RM is a fully digital UPS from EFFEKTA®. With its fast DSP (Digital Signal Processing) controller it offers a new sine-wave quality and high performances in controlling input and output.

Digitalisation of all circuits accelerates, optimises and reduces the number of components and increases the standard lifetime of important parts.

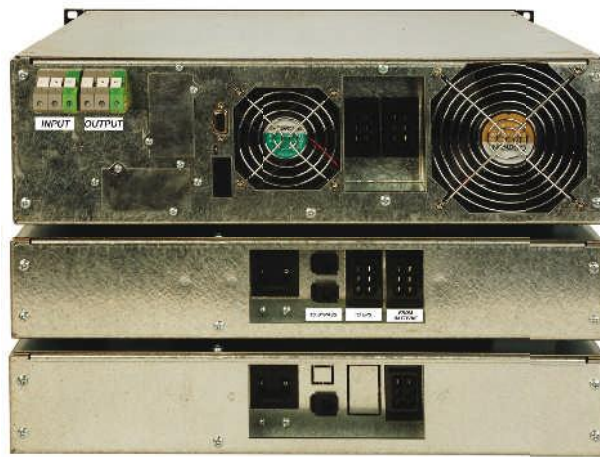
The reliability and availability of the power line has been improved considerably compared to existing switching technologies.

A wide range of easy-to-use extensions enable the UPS to be integrated easily for any application.

- UPS-classification VFI-SS-111 in accordance with IEC 62040-3
- True online double-conversion
- Digital control processor
- LCD display, 30 different status messages
- Sine wave current consumption
- Pure sine wave output
- Digital battery management
- Modular battery extension
- RS-232 + EPO (equipped as standard)
- Additional slot for optional relaycard or SNMP-adaptor
- Management software enclosed
- 24 months' warranty
- Optional external bypass



External bypass with optional web manager



rear view:  
Electronic-module at top,  
battery cabinet middle  
and bottom

# Specifications

Type	MH 6000 RM
<b>Power</b>	
VA Rating	6000
Wattage	4200
Cos phi	0.7
<b>Input</b>	
Voltage	160-280VAC
Frequency	45-65Hz
Current in Ampere	25
PFC (power-factor-correction)	yes
<b>Output</b>	
Voltage	200/220/240VAC selectable, $\pm 2\%$
Current in Ampere	21
Overload	<105% : 160 s >105 % ... < 150% : 40 ms >150% : immediately
Frequency	50/60Hz ( $\pm 0.2$ Hz in backup mode)
Waveform	Pure sine wave
Crest factor	3:1
Harmonic distortion	<3% with linear load
Fault reaction	Automatic switch to bypass or disconnection (in case of overload, overheat or short circuit)
Efficiency	up to 91% / in eco mode up to 98%
<b>BatterIES</b>	
Autonomy time (100% load)	>8 min.
DC-voltage	240VDC
Number of blocs	20
Capacity per unit	9,5Ah
Type	Lead acid, maintenance free (VRLA)
Expected lifetime	5 years (optional 10 years)
Recharge time	<8 hours up to 90%
<b>Bypass (SBS)</b>	
Nominal voltage	1 x 230V (160-280V)
Overload	200% for 160 msec.
Manuel bypass (standard)	Yes
<b>Communication</b>	
Display	Status on LCD + LCD: Line Mode, Backup Mode, ECO Mode, Bypass supply, Battery Low, Battery Bad/Disconnected, Overload, Transferring with Interruption & UPS Fault Readings on LCD: Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load percentage, Battery Voltage & Inner Temperature
Alarms	Audible and visual: Line Failure, Battery Low, Transfer to Bypass, System Fault Condition
Interface	Standard RS232 interface Communication slots options: 2nd RS232 & EPO, USB & EPO, RS 485 & EPO, Relay contact & EPO, SNMP/WEBCard, etc. Optional via software or external/slot adaptor
SNMP	
<b>Certificates and tests</b>	
Security	IEC 950/EN 50091-1, CE
EMV / RFI	EN 55022 « A »
<b>Mechanics / Environment</b>	
Casing	19" rack mountable / colour black / protection type
Dimensions UPS (H x W x D in mm)	3U / 19" / 545mm
Dimensions battery pack (H x W x D in mm)	2 x (2U / 19" / 515mm)
Weight	19.5 + 36.5 + 36.5
Temperature	0-40°C (UPS without battery)
Humidity	10-90% (non condensing)
Audible noise	50 dB(A) in 1 m distance (depends on load and temperature)