

# MTD-RM series

UPS line-interactive  
700, 1000, 1500, 2000VA, 3000VA  
19" rackmountable

Right picture  
Top: MTD 700/1000/1500 RM  
Middle: MTD 2000 RM  
Bottom: MTD 3000 RM



## Description

The MTD-RM series is EFFEKTA®'s further development of the line-interactive MT-RM-series.

It protects sensitive consumers from power blackouts, spikes and other disruptions. Areas of application are computers, remote telecommunications and other computer-aided systems.

The unit's compact and stable construction has been complemented by a convenient LCD display for easier operation.

## Features

- UPS-classification VI-SS-311 in accordance with IEC 62040-3
- Line-interactive-technology
- User-friendly LCD-display
- Compact design: only 1U (700/1000/1500VA), 2U (2000VA) and 3U (3000VA)
- Sine wave output
- Automatic frequency detection
- Equipped with RS-232 port as standard
- Slot for optional adapters: relay-card, opto-coupler, USB or SNMP
- Software-Suite "PowerShut" for UPS Management in almost all current operating systems
- 24 months' warranty

Option: XL-Version with the possibility for easy extension of the autonomy time through external battery packs

Left picture: clearly arranged control panel with back lighted LCD display (2000/3000VA model)





MTD RM is one of the most compact 19" line-interactive UPS systems in this power range: 1U (700/1000/1500kVA, upper picture), 2U (2000kVA, middle) and 3U (3000kVA, bottom picture)

MTD is equipped with RS-232 slot interface, which can be replaced with optional adapters: relay-card, opto-coupler, USB or SNMP.

# Specifications

Model		MTD 700 RM	MTD 1000 RM	MTD 1500 RM	MTD 2000 RM	MTD 3000 RM
Power	Power in VA	700	1000	1500	2000	3000
	Power in W	438	625	938	1250	1875
Autonomy time	100 % load	4min	3min	2min	4min	3min
	50 % load	9min	8min	5min	9min	6min
Input	Nominal input voltage	230VAC				
	Input voltage range	170-300VAC				
	Input frequency range	45-70Hz Auto-Sensing				
	Boost starting value / shut-off	195.5VAC ± 2% / 205.5VAC ± 2%				
	Buck starting value / shut-off	264.5VAC ± 2% / 254.5VAC ± 2%				
	Undervoltage warning value / all-clear	170VAC ± 2% / 180VAC ± 2%				
	Overvoltage warning value / all-clear	300VAC ± 2% / 290VAC ± 2%				
Output	Output voltage	Adjustable on LCD Display 220, 230, 240VAC				
	Voltage tolerance	Line Mode	± 15%			
		Battery Mode	< 3% RMS			
	Frequency tolerance	Line Mode	50Hz or 60Hz			
		Battery Mode	± 0.1Hz			
	Power factor	0.625				
	Voltage form	Sine wave				
Efficiency	>80%					
DC start-up	black start	Yes				
Switch time	typical	< 4msek.				
Battery	Nominal voltage	24VDC	24VDC	24VDC	36VDC	36VDC
	Blocks x nominal capacity/block	4 x 6V / 7Ah	4 x 6V / 7Ah	4 x 6V / 7Ah	3 x 12V / 9Ah	2 x 3 x 12V / 7Ah
	Type	Maintenance free sealed lead-acid battery				
	Life time	5 years, optional 10 years				
Display	Recharge time	5 h auf 90%				
	LCD	UPS status, I/P&O/P Voltage& Frequency, Load %, Battery Voltage %, Temperature				
Audible alarm	LED	Normal (green), Warning (yellow), Fault (red)				
	Battery Mode	Beeping every 4 seconds				
	Battery Low	Beeping every second				
	fault	Beep continuously				
Interface	overload	Beeping twice per second				
	Slot card	Standard with RS 232-interface.				
		Optional cards: USB, relay, AS400, SNMP, Modbus				
Environment	Temperature	0°C - 40°C				
	Humidity	0-95% non-condensing				
	Operating height	< 2000m above sea level				
	Acoustic Noise	< 55dBA @ 1m				
Mechanic	Casing	Steel plate-tower / front plastic				
	Protection class	IP 20				
	Dimensions (H x W x D in mm)	44 (1U) x 440 (19") x 515	44 (1U) x 440 (19") x 515	44 (1U) x 440 (19") x 515	88 (2U) x 440 (19") x 465	133 (3U) x 440 (19") x 465
	Weight	18kg	18kg	20.2kg	28.75kg	36.9kg
Terminals	Input	1 x IEC (10A)			1 x IEC (16A)	
	Output	5 x IEC	5 x IEC	5 x IEC	6 x IEC	10 x IEC
Safety/Enclosure	Standards	EN62040-1-1:2003				
	EMC	EN62040-2:2006				
	Norms	CE				