

# Line-Interactive MTD-RT series

The MTD RT and MTD XL RT is EFFEKTA®'s high-end line-interactive version of the MTD series. The back-up time of the XL-models can be extended by additional external battery packs in a unified design.

Its RackTower housing and the rotating LCD display allow both the use as a tower unit as well as installation in 19" cabinets.



## ■ Rear view



MTD 1000 / 1500 RT



MTD 2000 RT und 3000 RT

All MTD RT models offer at least 8 IEC C13 (10A) Consumer outputs.

## Options for extended communication and maximum availability:

- SNMP/web or relay card for monitoring in network environments
- Additional battery modules to provide an uninterruptible power supply for up to several hours
- External manual bypass for planned UPS maintenance work or replacement of the UPS unit without shutting it down

## Characteristics

- UPS-classification VI-SS-311 (IEC 62040-3)
- Line-interactive technology
- Excellent power factor of 0.9
- High efficiency (> 97%)
- „RackTower“ can be used both as a standalone unit, as well as a 19" rack mount unit
- XL-models expandable by external battery packs
- Huge input voltage range
- User-friendly LCD display with backlight
- Programmable outputs
- Hot swappable batteries
- Sine wave output
- Automatic frequency detection
- Equipped with RS-232 and USB port as standard
- Slot for optional adapters: relay-card or SNMP
- Management software
- 24 months' warranty

## Specifications

MTD		1000 RT	1500 RT	2000 RT	3000 RT
Power	Power in VA	1000	1500	2000	3000
	Power in W	900	1350	1800	2700
Autonomy time 100% / 50% load (cos. phi 0,7)	With internal batteries in minutes	7 / 15	5 / 11	7 / 15	5 / 11
	Internal batteries + 1 x battery pack	26 / 55	14 / 30	25 / 53	13 / 28
	Longer autonomy times on request (XL)				
Technology	Line-Interactive	VI-SS-311 in accordance with IEC 62040-3			
Phase	Input / Output	1-phase / 1-phase			
Input	Nominal voltage	220/230/240 VAC			
	Input voltage range	161-276 VAC			
	Input frequency range	50/60 Hz (Auto-Sensing)			
Output	Output voltage	220/230/240 VAC			
	Voltage Regulation	±5%			
	Frequency Range	50 Hz or 60 Hz ± 1 Hz			
	Transfer time	2-6 ms typical / 10 ms max.			
	Overload Capability (Line Mode)	< 110% for 3 min.			
	Overload Capability (Battery Mode)	< 110% for 30 sec.			
	Voltage form	sine wave			
	Efficiency	Utility mode	max. 97%		
Battery	Type	Maintenance free lead-acid battery			
	Life time	5 years, optional 10 years			
	Charging current (max)	1,5A standard / 4,5A XL version / ab. 2 battery pack 7A			
	Hot-Swappable	Yes			
Communication	Recharging time	ca. 6 h / 90% capacity			
	Interface	RS232, USB, EPO			
	Slot for further communication cards	Optional relay contacts or SNMP card			
Dimensions / Weight	Display	LC-Display			
	Dimensions (H x W x D in mm)	86,5 (2U) x 438 (19") x 430		86,5 (2U) x 438 (19") x 600	
	Dimensions of battery extension (HxBxT in mm) optional	86,5 (2U) x 438 (19") x 430		86,5 (2U) x 438 (19") x 600	
	Weight USV (Standard / XL)	16 kg / 12 kg		29,5 kg / 18,6 kg	
	Weight battery pack	depending on the quantity of batteries			
Terminals	Protection	IP 20 (optionally higher protection class possible)			
	Input	IEC (10 A)		IEC (16 A)	
	Output	8 x IEC C13 (10 A)			8 x IEC C13 (10 A) 1 x IEC C19 (16 A)
Environmental conditions	Temperature	0°C – 40°C, 20°C recommended			
	Humidity	0-90 % RH @ 0- 40°C (non condensing)			
	Acoustic Noise	< 52 dB			
Safety / Enclosure	Safety	EN 62040-1			
	EMC	EN 62040-2, class C2			
	Certifications	CE			