

MTD-RT Series 7 Series

Line-Interactive Racktower UPS 1000, 1500, 2000, 3000VA





Description

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.





Features

- · UPS-classification VI-SS-311 (IEC 62040-3)
- · Line-interactive-technology
- Excellent power factor of 0.9
- · High efficiency (> 97%)
- · XL-models expandable by external battery packs
- "RackTower" can be used both as a standalone unit, as well as a 19" rack mount unit
- · Huge input voltage range
- User-friendly LCD display with backlight depending on the operating condition
- · Sine wave output
- Automatic frequency detection
- · Equiped with RS-232 an USB port as standard
- Slot for optional adapters: relay-card or SNMP
- Software-Suite "PowerShut" for UPS Management in almost all current operating systems
- 24 months' warranty

Image left: On the user-friendly control panel the status of the UPS is visible at first glance from the color of the background illumination.



Top left: MTD 1000/1500 RT rear view Middle left: MTD 2000 RT rear view Bottom left: MTD 3000 RT rear view

The MTD RT series is equipped with RS-232, USB and emergency contacts as standard. The card slot can be equipped with additional communications cards like a SNMP adapter or a relay card.

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

The 3000 VA model additionally provides a 16 ampere IEC C19 output.

Specifications Call Call

Model		MTD 1000 RT		MTD 1500 RT		MTD 2000 RT		MTD 3	3000 RT		
		Standard XL		Standard XL		Standard XL		Standard XL			
Power	Power in VA								3000		
rowei	Power in W		1000		1500 1350		2000		2700		
Autonomy time	100% load (XL models expandable)		4.5 min.	> 20 min.	3 min.	> 19 min.	4.5 min.	> 19 min.	3 min.	> 20 min.	
Autonomy time	50% load (XL models expandable)		4.5 min.	> 45 min.	7 min.	> 45 min.	4.5 min.	> 45 min.	7 min.	> 45 min.	
	Minimum number of external battery packs		0	7 43 IIIII. 1	0	2	0	1	0	2	
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Input	Nominal input voltage / voltage range		230VAC / 161~276VAC								
	Input frequency range		50/60Hz normal mode / 40-70Hz generator mode								
	Boost threshold		207VAC ± 4% / 215VAC ± 4% (setup 230VAC wide range)								
	Undervoltage threshold		161VAC ± 4% / 171VAC ± 4% (setup 230VAC wide range)								
	Voltage return threshold		243VAC ± 4% / 236VAC ± 4% (setup 230VAC wide range)								
	Overvoltage threshold		276VAC ± 4% / 266VAC ± 4% (setup 230VAC wide range)								
Output	Output voltage		220, 230, 240VAC								
	Voltage tolerance (battery mode)		± 5% RMS								
	THD(i) typical										
		< 6% THD									
	Frequency-tolerance	45-55Hz / 55-65Hz									
		50/60 ±0.1Hz									
	Power factor		0.9								
	Wave form		sinusoidal								
	Efficiency		>97% (Normal operation, charged batteries)								
DC start-up	Black start		Yes								
Switch time	Typical				2 ~ 6	msec.					
Battery	Nominal voltage		36VDC 36VDC 72VDC 72VDC								
	Number of blocks x capacity / block		On request / depending on the battery assembly								
	Type		Maintenance free sealed lead-acid battery								
	Life expectancy		Approximately 5 years (subject to environment.) Optional 10 years								
	Recharging time		Approximately 3 h to 90% (with one battery pack)								
Display	LCD		UPS status, I/P&O/P Voltage& Frequency, Load, Battery Voltage, Capacity, Temperature								
	LCD-backlight		Normal (blue) / Fault (Red)								
Audible alarm	Battery mode / Battery low		Beeping every 4 seconds / Beeping every second								
	USV fault / Overload		Beep continuously / Beeping every second								
Interface		RS232, USB, EPO, Card slot for optional SNMP / relay card									
Environment.	Temperature			0°C – 40°C							
	Humidity		0-95% non-condensing								
	Operating height		0 - 1500 meter @ 0~40°C / 1501 - 3000 meter @ 0~35°C								
	Acoustic Noise		< 50 dBA @ 1 m								
Mechanic	Casing		steel-tower / front plastic								
	Protection class		IP 20								
	Dimensions UPS		86.5 (2U) x 438 (19") x 430				86.5 (2U) x 438 (19") x 600				
	(HxWxD in mm)	batterie pack	86.5 (2U) x 438 (19") x 430 (XL only)			86.5 (2U) x 438 (19") x 600 (XL only)					
	Weight	UPS	16 kg	12 kg	16 kg	12 kg	29.5 kg	18.6 kg	29.5 kg	18.6 kg	
		batterie pack max.	-	20.5 kg	-	20.5 kg	-	33.3 kg	-	33.3 kg	
Terminals	Input				C (10A)				C (16 A)		
	Output		8 x IEC C13 (10A) 8 x IEC C13 (10A) 8 x IEC C13 (10A)					13 (10A) +			
	Ottput			1 x IEC C13 (10A)							
Regulations / standards	Safety			EN 62040-1							
regulations / standards	EMC		EN 62040-1 EN 62040-2 Class C1								
	Certifications		CE								
	Octunoations		VL								