

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 | | | |