

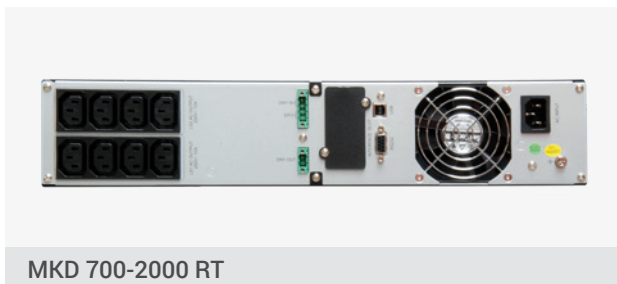
# Online double conversion MKD-RT series

The MKD-RT is EFFEKTA®'s high-end model in the field of high-quality microprocessor-based online double conversion UPS's for your IT environment or metrology and industrial plants.

The MKD-RT is already equipped with extensive and specific features, which are usually provided in the UPS market by most expensive special UPSs. The programmable switch contacts, or the adjustable restart function are just two of countless examples. The XL versions also offer the possibility of battery extension.



## ■ Rear view



With RS232 and USB interface, emergency contact (EPO) and individually programmable switch contacts.

### 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
- Extended warranty arrangements

## Characteristics

- UPS Classification VFI-SS-111 (IEC 62040-3)
- Online double-conversion
- Can be used as tower as well as 19"-unit
- User-friendly rotating LCD display
- Wide input voltage range (120-276VAC)
- Excellent power factor of 0.9
- With sinusoidal output switchable to ECO mode
- Hot swappable batteries
- Programmable outputs
- Automatic frequency detection
- Output frequency preset
- Extensive communication & control
- Programmable switch contacts as standard
- Emergency power-off „EPO“ as standard
- Slot for another optional adapter
- Management software
- Operation of a frequency converter is possible
- 24 months' warranty

## Specifications

MKD		700 RT	1000 RT	1500 RT	2000 RT	3000 RT
Power	Power in VA	700	1000	1500	2000	3000
	Power in W	630	900	1350	1800	2700
Autonomy time 100% / 50% load (cos. phi 0,7)	With internal batteries in minutes	9 / 20	7 / 15	5 / 11	5 / 11	7 / 15
	Internal batteries + 1 x battery pack	40 / 84	26 / 55	35 / 74	11 / 23	13 / 28
	Longer autonomy times on request (XL)					
Technology	Online double conversion	VFI-SS-111 in accordance with IEC 62040-3				
Phase	Input / Output	1-phase / 1-phase				
Input	Nominal voltage	220/230/240 VAC				
	Input voltage range	120-276 VAC				
	Input frequency range	50/60 Hz (Auto-Sensing)				
Output	Output voltage	220/230/240 VAC				
	Voltage Regulation	±1%				
	Frequency Range	50 Hz or 60 Hz ± 1 Hz				
	Transfer time	none				
	Overload Capability (Line Mode)	< 130%: 12 sec.. / < 150%: 1,5 sec.				
Efficiency	Voltage form	Sine wave				
	ECO mode	Max. 95%				
Battery	Type	Maintenance free lead-acid battery				
	Life time	5 years, optional 10 years				
	Charging current (max)	1,5A Standard / 6 A XL-Version				
Communication	Recharging time	ca. 6 h / 90% capacity / XL depending on the equipment				
	Interface	RS232, USB, EPO				
	Slot for further communication cards	Optional relay contacts or SNMP card				
Dimensions / Weight	Display	LC-Display				
	Dimensions UPS (H x W x D in mm) as a 19" installation variant	2U x 438 x 435				2U x 438 x 600
Dimensions / Weight	Dimensions of battery extension (H x W x D in mm) optional	2U x 438 x 435				2U x 438 x 604
	Weight USV (Standard / XL)	13,2 kg / 8,4 kg	19,7 kg / 9,3 kg		27,8 kg / 13 kg	
	Weight battery pack	depending on the quantity of batteries				
	Protection	IP 20 (optionally higher protection class possible)				
	Terminals	Input	IEC (10 A)		IEC (16 A); MKD 3000 RT XL (hard wired)	
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 C1				
	Certifications	CE				