

MKD-RT Series

On-line double conversion
700, 1000, 1500, 2000, 3000VA
Racktower-Design

NEU / NEW

Now also XL models available
with expandable batteries

Description

The MKD-RT is EFFEKTA®'s high-end model in the field of high-quality microprocessor-based on-line 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.



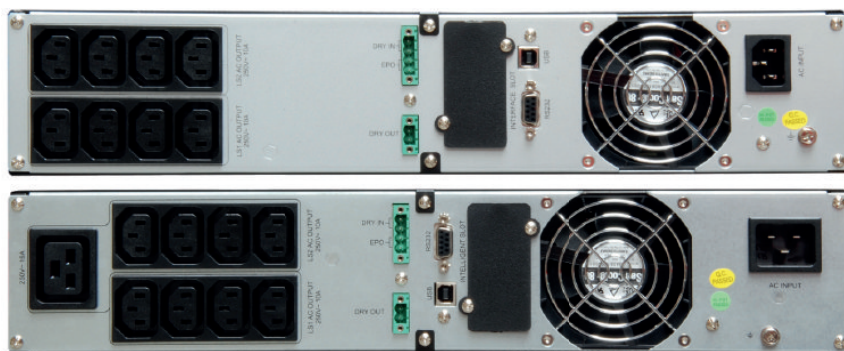
The MKD-RT can be used as 19" rack mount 2U device in any standard 19" rack after attaching the included 19" mounting angles. To make this possible, the clear LCD display can be rotated by 90°.



Left: Standard
Right: XL-Version

Properties

- UPS Classification VFI-SS-111 (IEC 62040-3)
- Can be used as tower as well as 19"-unit
- User-friendly swivel LCD display
- Optional XL version with expandable batteries
- Wide input voltage range (120-276VAC)
- Excellent power factor of 0.9
- Online double conversion with sinusoidal output switchable to ECO mode (line interactive)
- Microprocessor controlled
- Automatic frequency detection
- Output frequency preset (frequency converter function)
- Extensive communication & control:
 - RS-232 as standard
 - USB as standard
 - Programmable switch contacts as standard
 - Emergency power-off „EPO“ as standard
- Slot for another optional adapter:
 - Relay board or SNMP
- Management software for all popular OS
- 24 months' warranty



Top left: MKD 700-2000 RT rear view

Bottom left: MKD 3000 RT rear view

With existing standard RS232 and USB interface as well as standard emergency contact (EPO) and individually programmable dry contacts (DRY IN / OUT DRY) the MKD RT provides extraordinarily extensive communication and control. And yet even this can be extended by additional optional adapter slot (SNMP, relay card).

Specifications

Modell		MKD 700 RT		MKD 1000 RT		MKD 1500 RT		MKD 2000 RT		MKD 3000 RT			
		Standard	XL	Standard	XL	Standard	XL	Standard	XL	Standard	XL		
Power	Power(VA) max	700		1000		1500		2000		3000			
	Power(W) max	630		900		1350		1800		2700			
Back-up time (XL-models expandable)	@ 100% load (pf 0,7) in min.	app. 9	**	app. 7	**	app. 5	**	app. 5	**	app. 7	**		
	@ 50% load (pf 0,7) in min.	app. 27		app. 15		app. 15		app. 15		app. 20			
Input	Cold Start	yes, default frequency=50Hz											
	Acceptable Input Voltage	120VAC-276VAC											
	Adjustable Bypass Voltage	120VAC-276VAC											
	THDi	<5% with full load											
	Input Power Factor	≥0.99(FULL RCD LOAD)											
	Input Frequency Range	45-55Hz / 54-66Hz											
Output	Output Voltage	Waveform	Pure sine wave										
		Nominal voltage	208VAC/220VAC/230VAC/240VAC ±1%										
		Transient recovery	100ms (IEC 62040-3 Non-linear load)										
		Voltage distortion	<2% THD, linear load / <5% THD, non-linear load										
	Output Frequency	Synchronization range	45-55Hz / 54-66Hz (Adjustable)										
		Battery mode	50/60±0.2Hz										
	Power Factor	0.9											
	Transfer Time	Line to battery mode	0ms										
		Inverter to bypass	4ms @ ECO mode										
		ECO to Inverter mode	<10ms										
Full Load Efficiency	Line mode	> 89% with battery fully charged											
	Battery mode	> 84% @ 12VDC / battery											
	ECO mode	> 95%											
Overload Capability (Line Mode)		102% ~ 130% : 12s / 130% ~ 150% : 1.5s / > 150% : 100ms											
Overload Capability (Battery Mode)		102% ~ 130% : 12s / 130% ~ 150% : 1.5s / > 150% : 100ms											
Battery	Battery type	12VDC / 7Ah (XL 9Ah) (Sealed maintenance free lead acid batteries)						12VDC / 9Ah (Sealed maintenance free lead acid batteries)					
	Quantity	3	**	3	**	4	**	4	**	6	**		
	DC Voltage	36VDC		36VDC		48VDC		48VDC		72VDC			
	Charging time	< 3h charge to 90% (XL-models depending on assembly)											
	Charging current (max) in A	1.5	6.0	1.5	6.0	1.5	6.0	1.5	6.0	1.5	6.0		
Communication	Integrated	RS232, USB, Dry Contacts, EPO											
	Optional cards	Intelligent Slot for AS 400, SNMP, Opto-coupler											
Indicator & Alarm	Display	YES / LCD											
	Accoustic	YES											
Mechanical	Dimensions (HxWxD in mm)	UPS	86.5 (2U) x 438 (19") x 435								86.5 (2U) x 438 (19") x 604		
		Battery pack	86.5 (2U) x 438 (19") x 430								86.5 (2U) x 438 (19") x 600		
	Weight in kg	UPS	13.2	8.4	13.2	8.4	19.7	9.3	19.7	9.3	27.8	13	
		Battery pack max.	-	20.5	-	20.5	-	20.5	-	33.3	-	33.3	
Protection		IP20											
Operating Temperature Range		0°C ~ 40°C											
Humidity		0~95% (No condensing)											
Audible Noise		App. 52dB @ 1meter											
Standards	Safety	EN 62040-1											
	EMC	EN 62040-2 Class C1											
	Certifications	CE											

** Variable and depends on the battery layout