

MKD-RT Series

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

NEU / NEW

New design
Additional models

Right: The feet supplied to make the
MKD-RT stable tower unit.

Description

The MKD-RT is now available as a complete series in new design. It's 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 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°.



Properties

- UPS Classification VFI-SS-111 (IEC 62040-3)
- Can be used as tower as well as 19"-unit
- User-friendly swivel LCD display
- 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 1000-2000 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

Model	MKD 1000 RT	MKD 1500 RT	MKD 2000 RT	MKD 3000 RT
Power	Power(VA) max	1000	1500	2000
	Power(W) max	900	1350	1800
Back-up time	@ 100% load	app. 5min.	app. 4min.	app. 4min.
	@ 50% load	app. 15min.	app. 13min.	app. 10min.
Input	Cold Start	yes, default frequency=50Hz		
	Acceptable Input Voltage	120VAC-276VAC		
	Adjustable Bypass Voltage	120VAC-276VAC		
	Phase	Single phase with ground		
	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 (Sealed maintenance free lead acid batteries)		12VDC / 9Ah (Sealed maintenance free lead acid batteries)
	Quantity	3	4	4
	DC Voltage	36VDC	48VDC	48VDC
	Charging time	< 3h charge to 90%		
	Charging current (max)	1.5A	1.5A	1.5A
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	Casing	steel-tower / front plastic		
	Protection class	IP 20		
	Dimensions (HxWxD in mm)	86.5 (2U) x 438 (19") x 435		86.5 (2U) x 438 (19") x 604
	Weight	13.2kg	19.7kg	19.7kg
	Operating Temperature Range	0°C ~ 40°C		
	Humidity	0~95% (No condensing)		
	Audible Noise	App. 52dB @ 1meter		
Regulations / standards	Safety	EN 62040-1		
	EMC	EN 62040-2 Class C1		
	Certifications	CE		