

MKD-RM



Right hand picture:
MKD 2000/3000 RM

Description

The MKD UPS is a modern, microprocessor controlled online double-conversion UPS.

With its extraordinary compact design MKD RM can specially be used in racks with a minimum of space capacity.

The MKD UPS features an electronic bypass and is to be applied with supersensitive and critical applications like servers, workstations, metrological or industrial systems.

Features

- UPS-classification VFI-SS-111 (IEC 62040-3)
- Extraordinary wide voltage range (118-300VAC @ <50% load)
- User-friendly LCD-Panel
- Compact design: only 2U per slot already from 415mm depth (700/1000VA)
- Online double-conversion
- Sine wave output
- Microprocessor controlled
- Automatic frequency detection
- Equipped with RS-232 port as standard
- Slot for optional adapters: relay card, opto-coupler, USB or SNMP
- Management software for Windows '95,'98, 2000, 2003 Server, NT, XP, Vista (Business and higher), Novell, Unix
- Optional XL-version with external battery cabinets
- 36 months' warranty



Bottom picture: MKD 700/1000 RM



Rear view of MKD 700/1000 RM (internal batteries)



Rear view of MKD 2000 RM (electronics only)



Rear view of MKD 3000 RM (electronics only)



Rear view of battery pack for MKD 2000/3000 RM (same type for XL models)

Specifications

Type		MKD 700 RM	MKD 1000 RM	MKD 2000 RM	MKD 3000 RM	
Power	Power in VA	700	1000	2000	3000	
	Power in W	490	700	1400	2100	
Autonomy time	Nominal load	10	7	7	6	
Input	Nominal input voltage	230VAC				
	Input voltage range	118~300VAC (0-50% load), 140~300VAC (50-70% load), 160~300VAC (70-100% load)				
	Input frequency range	50 or 60Hz +/-8%				
	Max. input current	s. terminals > input fuse				
	Powerfactor (cos φ)	>0.95		>0.95		
Output	Output voltage	adjustable 220, 230, 240VAC				
	Deviation statically	+/-2%				
	Waveform	Sine wave				
	Output frequency	50 or 60Hz (synchronized line-mode / ± 0.5% battery mode)				
	Harmonic distortion / linear load	< 3% @ full load		< 3% @ full load		
	Crest factor acc. EN 50091-1	3:1 / (surge current / RMS-current)				
	Max. output current in A	3	3	3	3	
	Efficiency at nom. Load	>85% AC-AC / >83% DC-AC				
	Overload	Normal operation mode	Bypass transfer @ load > 110%			
Normal / battery mode		105-150% for 30Sec. / 150% for 200mSec				
Short circuit current		3 x Inenn for (120mSec)				
Bypass	Voltage range	Adjustment range min. 156-196V, max. 233-273V				
	Transfer time	2.5mSec inverter to bypass				
Battery	Nom. Voltage	36VDC	36VDC	36VDC	36VDC	
	Blocks	3	3	3	3	
	Nom. capacity/block	7Ah	7Ah	7Ah	7Ah	
	Type	Lead acid, maintenance free batteries				
	Life time	App. 5 years (subject to environment)				
	Recharge time	App. 5h up to 90%				
	Battery test	Manually via button or via software				
	Prot./standards	Appliances	Electron. overload- and short circuit-prot., temperature monitoring, deep discharge protection...			
		Safety	CE / EN62040-1			
EMC		EN 62040-2				
Environment	Temperature (operational)	0°C – 40°C				
	Temperature (storage)	0°C – 40°C				
	Humidity	20-95% not condensing				
	Altitude (operational)	<2000m o. NN				
Mechanic	Casing	Steel plate / front plastics				
	Protection class	IP20				
	Dimensions (H x W x D in mm)	2U x 19" x 415mm	2U x 19" x 415mm	2 x 2U x 19" x 465mm	2 x 2U x 19" x 465mm	
	Weight	15kgs	15kgs	34kgs	35kgs	
Terminals	Input	1 x IEC (10A)			1 x IEC (16A)	
	Output	4 x IEC		4 x IEC	2 x IEC (10A) 1 x IEC (16A)	
	Input fuse	6.3A	6.3A	10A	16A	
	DC-terminals (for ext. battery extension)	optional				
Communication	Socket Sub-D 9, slot	RS 232-interface / Optionally available cards for slot: USB, relays, SNMP				