

MKD-Series

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MKD 1000
To the right: Rear view
To the left: Front view

Description

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

The MKD UPS features 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)
- User-friendly LCD-Panel
- Online double-conversion
- Sine wave output
- Microprocessor controlled
- Automatic frequency detection
- RS-232 as standard, switching contacts (DB9 / opto-coupler), USB and SNMP optionally via adapter
- Management software for Windows '95,'98, 2000, 2003 Server, NT, XP, Vista, Novell, Unix
- Optional XL-version with external battery cabinets
- 36 months' warranty

Left hand picture: 2000 VA XL-version with optional external battery cabinet (right hand casing)



Rear view MKD 700/1000



Rear view MKD 2000



Rear view MKD 3000

Specifications

Type		MKD 700	MKD 1000	MKD 2000	MKD 3000
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	160-300VAC (70-100% load), 140-300VAC (50-70% load), 118-300VAC (0-50% load)			
	Input frequency range	50 or 60Hz +/-8%			
	Max. input current	s. terminals > input fuse			
	Powerfactor (cos φ)	>0.95		>0.97	
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		< 4% @ full load	
	Crest factor acc. EN 50091-1	3:1 / (surge current / RMS-current)			
	Max. output current in A	3	4.3	8.7	13
	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 I _{nom} for (120mSec)			
Bypass	Voltage range	Adjustment range min. 156-196V, max. 233-273V			
	Transfer time Inv.>Bypass	0 ms (2.5mSec inverter to bypass)			
Battery	Nom. Voltage	36VDC	36VDC	96VDC	96VDC
	Blocks	3	3	8	8
	Nom. capacity/block	7Ah	7Ah	7Ah	7Ah
	Type	Lead acid, maintenance free batteries			
	Life time	App. 5 years (subject to environment) optionally 10 years			
	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 / UL / cUL / 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)	220x160x400	220x160x400	352x200x450	352x200x450
	Weight	15kgs	15kgs	34kgs	35kgs
Terminals	Input	IEC-320			
	Output	4 x IEC		6 x IEC	
	Input fuse	6.3A	6.3A	20A	20A
	DC-terminals (for ext. battery extension)	optional			
Communication	Socket Sub-D 9	RS 232-interface optionally USB, DB9, AS400, SNMP			