

MKD



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)
- Extraordinary wide voltage range (118-300VAC @ <50% load)
- User-friendly LCD-Panel
- 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

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	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		>0.97		
	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 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	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)				
	Recharge time	App. 5h up to 90%				
Prot./standards	Battery test	Manually via button or via software				
	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)	220x160x400	220x160x400	352x200x450	352x200x450	
	Weight	15kgs	15kgs	34kgs	35kgs	
Terminals	Input	1 x IEC (10A)				
	Output	4 x IEC		6 x IEC		
	Input fuse	6.3A	6.3A	10A	16A	
	DC-terminals (for ext. battery extension)	Only XL-models				
Communication	Socket Sub-D 9, slot	RS 232-interface / Optionally available cards for slot: USB, relays, SNMP				