

MCI-Series

On-line double conversion
700, 1000, 2000, 3000VA
With expandable batteries
Power factor 0.9

NEU / NEW



Description

The MCI is EFFEKTA's newest online double-conversion UPS with power factor 0.9. It is equipped with an electronic bypass and is to be applied with supersensitive and critical applications like servers, workstations, measurement technology or industrial plants

For full control and monitoring, it provides each one USB and RS232 interface and can be supplemented via its slot by optional communication cards.

All models can be extended in the autonomy time through external battery packs.

Left to right:
MCI 700/1000
MCI 2000/3000
Battery extension 96 VDC
(others on request)

Properties

- UPS Classification VFI-SS-111 (IEC 62040-3)
- All models with expandable batteries
- XL version with stronger charger
- Wide input voltage range (110-300VAC)
- Excellent power factor of 0.9
- Online double conversion with sinusoidal output switchable to ECO mode (line interactive)
- Microprocessor controlled
- Automatic frequency detection
- USB and RS232 as standard
- Slot for another optional adapter: Relay board or SNMP
- Management software for all popular OS
- 24 months' warranty



Left: The clear backlit LCD display shows all the important information about the operating status of the UPS at a glance.



Rear view

Left to right:
MCI 700/1000
MCI 2000
MCI 3000

Specifications

Model	MCI 700		MCI 1000		MCI 2000		MCI 3000				
	Standard	XL	Standard	XL	Standard	XL	Standard	XL			
Power	Power(VA) max		700		1000		2000		3000		
	Power(W) max		630		900		1800		2700		
Back-up time <small>expandable</small>	@ 100% load (pf 0.7)		> 11min.	dep. on bat.	> 7min.	dep. on bat.	> 7min.	dep. on bat.	> 6min.	dep. on bat.	
	@ 50% load (pf 0.7)		app. 20min.	layout	app. 18min.	layout	app. 18min.	layout	app. 12min.	layout	
Input	Cold Start		yes, default frequency=50Hz								
	Acceptable Input Voltage		110VAC - 300VAC								
	Adjustable Bypass Voltage		110VAC - 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	200VAC / 208VAC / 220VAC / 230VAC / 240VAC / ±2%								
		Transient recovery	100ms (IEC 62040-3 non-linear load)								
		Voltage distortion	<3% 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		>88% with battery fully charged								
	Battery mode		>85% @ 12VDC / battery								
	ECO mode		>94%								
Overload Capability (Line Mode)		105% ~ 110% : 1min / 110% ~ 125% : 30s / 125% ~ 150% : 10s / > 150% : 1s									
Overload Capability (Battery Mode)		105% ~ 110% : 1min / 110% ~ 125% : 30s / 125% ~ 150% : 10s / > 150% : 1s									
Battery	Battery type		12VDC / 7Ah (XL 9Ah) (Sealed maintenance free lead acid batteries)		12VDC / 7Ah (XL 9Ah) (Sealed maintenance free lead acid batteries)		12VDC / 7Ah (XL 9Ah) (Sealed maintenance free lead acid batteries)		12VDC / 7Ah (XL 9Ah) (Sealed maintenance free lead acid batteries)		
	Quantity		3	dep. on bat. layout	3	dep. on bat. layout	8	dep. on bat. layout	8	dep. on bat. layout	
	DC Voltage		36VDC		36VDC		96VDC		96VDC		
	Charging time		<5h charge to 90% (XL-models depending on assembly)								
	Charging current (max)		1A	8A	1A	8A	1A	4 / 8 / 12A	1A	4 / 8 / 12A	
Communication	Integrated		USB, RS232, EPO								
	Optional cards		Intelligent Slot for AS 400, SNMP, Opto-coupler								
Indicator & Alarm	Display		Yes / LCD								
	Acoustic		Yes								
Mechanical	Dimensions (HxWxD in mm)	UPS	220x145x400				347x192x460				
		Battery pack	220x145x400				347x192x460				
	Weight	UPS	13kg	7kg	13kg	7kg	13kg	7kg	13kg	7kg	
		Battery pack max.	-	sev. vers.	-	sev. vers.	-	sev. vers.	-	sev. vers.	
	Protection		IP20								
	Operating Temperature Range		0°C ~ 45°C								
Humidity		0 ~ 95% (no condensing)									
Audible Noise		app. 50dB @ 1meter									
Standards	Safety		EN 62040-1								
	EMC		EN 62040-2 class C1								
	Certifications		CE								