

MTD-series

MTD 1000
left: front
right: rear view



Description

The MTD is EFFEKTA®s' further development of the line-interactive MT-series.

It protects sensitive consumers from power blackouts, spikes and other disruptions. Areas of application are computers, remote telecommunications and other computer-aided systems.

The unit's compact and stable construction has been complemented by a convenient LCD display for easier operation.



Features

- UPS-classification VI-SS-311 in accordance with IEC 62040-3
- Line-interactive-technology
- User-friendly LCD-display
- 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
- Software-Suite PowerShut for UPS Management in almost all current operating systems
- 24 months' warranty

Option: XL-Version with an possibility for easy extension of the autonomy time through external battery packs

Left picture: clear control panel with back lighted LCD display



MTD is equipped with RS-232 slot interface, which can be replaced with optional adapters: relay-card, opto-coupler, USB or SNMP.



Specifications

Model		MTD 1000	MTD 1500	MTD 2000
Power	Power in VA	1000	1500	2000
	Power in W	625	938	1250
Autonomy time	100% load	6min	6min	4min
	50% load	15min	15min	9min
Input	Nominal load	230VAC		
	Nominal input voltage	170-300VAC		
	Input frequency range	45-70Hz Auto Sensing		
	Boost starting value / shut-off	195.5VAC ± 2% / 205.5VAC ± 2%		
	Buck starting value / shut-off	264.5VAC ± 2% / 254.5VAC ± 2%		
	Undervoltage warning value / all-clear	170VAC ± 2% / 180VAC ± 2%		
	Overvoltage warning value / all-clear	300VAC ± 2% / 290VAC ± 2%		
Output	Output voltage	Adjustable on LCD-display 220, 230, 240VAC		
	Voltage tolerance	Line Mode	±15%	
		Battery Mode	<3% RMS	
	Frequency tolerance	Line Mode	50Hz oder 60Hz	
		Battery Mode	±0.1Hz	
	Power factor	0.625		
	Voltage form	Sine-wave		
Efficiency	>80%			
DC start-up	black start	Yes		
Switch time	typical	<4msec.		
Battery	Nominal voltage	24VDC	36VDC	36VDC
	Blocks x nominal capacity / block	2 x 9Ah	3 x 9Ah	3 x 9Ah
	Type	Maintenance free sealed lead-acid battery		
	Life time	5 years, optional 10 years		
	Recharge time	~5 h at 90%		
Display	LCD	UPS status, I/P&O/P Voltage & Frequency, Load %, Battery Voltage %, Temperature		
	LED	Normal (green) / Warning (yellow) / Fault (red)		
Audible alarm	Battery Mode	Beeping every 4 seconds		
	Battery Low	Beeping every second		
	fault	Beeping continuously		
	overload	Beeping twice per second		
Interface	Slot card	Standard with RS 232-interface		
		Optional cards: USB, relay, AS400, SNMP, Modbus		
Environment	Temperature	0°C - 40°C		
	Humidity	0-95% non-condensing		
	Operating height	<2000 above sea level		
	Acoustic Noise	<55dBA @ 1m		
Mechanic	Casing	Steel plate-tower / front plastic		
	Protection class	IP 20		
	Dimensions (H x W x D in mm)	210 x 145 x 380	210 x 145 x 445	210 x 145 x 445
	Weight	16.5kg	17.5kg	22.5kg
Terminals	Input	1 x IEC (10A)		
	Output	3 x IEC	6 x IEC	
	DC-connection (for battery extension)	only XL-versions		
Safety/Enclosure	Standards	EN62040-1-1		
	EMC	EN62040-2		
	Norms	CE		