

MLD Series

High Frequency Online UPS
Single-phase in/Single-phase out
1 – 3 kVA



Product

MLD series is online double-conversion UPS with full DSP control technology. With 19 inch standard rack design, self-adjusting output frequency, smart battery management system and network management. MLD is a perfect choice for computers, IT equipment and other sensitive device.

DSP Technology

The advanced DSP digital control technology enables UPS more stable performance.

Active input power factor correction (PFC)

Digitalized control of the PFC enable the UPS to keep input power factor above 0.99 to prevent possible electric grid pollution and meanwhile mostly save the cost.

Zero power switch delay

When the utility power fails, UPS will automatically switch from AC mode to battery mode with no delay, which ensures stable power supply of operating system.

Environment Friendly

This UPS is eco-designed and manufactured to meet the most local pollution control requirement of Electronic Products, which means it will cause no harm to environment and human beings in normal usage.

Wide range of input voltage and frequency

We intentionally widen the range of input factors to make sure the UPS can apply to various environment, which will effectively sustain the battery charging even in unstable power environment so that the service life of the UPS could be obviously prolonged.

Application

IDC (Internet Dater Center) network, servers and workstations, control system, communication system, office, PC etc.

Features

- True online double-conversion technology
- Wide input voltage range and stable power supply extends battery lifetime
- DSP technology
- Advanced PFC technology, input PF>99%
- Cold start
- Automatic battery charging on/off mode
- Lighting and surge protection
- LCD
- Smart RS232 port with monitoring software
- Smart slot for mission critical applications

Model	MLD1101S	MLD1101L	MLD1102S	MLD1102L	MLD1103S	MLD1103L
Capacity	1kVA/1kW		2kVA/2kW		3kVA/3kW	
Input						
Voltage	208/ 220/230/240Vac, L+N+PE					
Voltage Range	110~300Vac					
Frequency Range	40-70Hz					
Power Factor	≥0.99					
THDi	≤4% (Linear load); ≤5% (Non-linear load)					
Output						
Voltage	208/220/230/240Vac, L+N+PE					
Voltage Regulation	±1%					
Frequency	50/60Hz ± 0.1%					
THDu	≤2% (Linear load); ≤5% (Non-linear load)					
Harmonic Distortion	≤2% (Linear load); ≤5% (Non-linear load)					
Transfer Time	Line mode to battery mode, 0ms; Inverter mode to bypass mode, 4ms					
Waveform	Pure Sine Wave					
Overload Capacity	Line Mode: 30min@102%~110% load 10min@110%~130% load 30s@130%~150% load 200ms@>150% load			Battery Mode: 1min@102%~110% load 10s@110%~130% load 3s@130%~150% load 200ms@>150% load		
Crest Factor	3:1					
Efficiency						
Line Mode	94.5%		95.5%		95.5%	
Battery Mode	87.5%@24Vdc	88.5%	89.5%@48Vdc	91.5%	91.5%	
	88.5%@36Vdc		91.5%@72Vdc			
ECO Mode	98%					
Battery						
Battery Voltage	24/36Vdc	36Vdc	48/72Vdc	72Vdc	72/96Vdc	96Vdc
Battery Number	12V 9AH*2/3pcs	External	12 9AH*4/6pcs	External	12V 9AH*6/8pcs	External
Charging Current	1A	1-12A settable	1A	1-12A settable	1A	1-12A settable
Communication						
Interface	RS232 / SNMP card(optional) / USB Port /AS400 (optional)					
Environment						
Operation Temperature	0~40°C					
Humidity	0~95% (non-condensing)					
Audible Noise	≤50dB					
Altitude	The altitude should not exceed 1000m, and the height above 1000m should be reduced to a maximum of 4000m. Refer to IEC62040					
Physics						
Dimensions (W*D*H)mm	440*379*86	440*379*86	440*450*86(48Vdc)	440*450*86	440*568*86(72Vdc)	440*450*86
			440*568*86(72Vdc)		440*719*86(96Vdc)	
Weight (kg)	8.6/10	4	15.6/18.6	6.4	22.5/25	8.2

All specifications are subject to change without prior notice.