



## EPI S5-Dual MLD series

Single-Phase in / Single-Phase out – from 1 kVA to 3 kVA



S5-Dual MLD is the perfect solution for mission critical applications which require the highest levels of reliability, availability and performance.

S5-Dual MLD is unique in that the UPS can be placed directly onto the floor or mounted in 19" rackmount cabinets. The UPS only occupy 2U in the 19" or 21" rack cabinets with optional 21" rack accessories. The range is available in 1000-2000-3000 VA modes.

### SMART INTELLIGENT LCD PANEL

- The front panel LCD display can be adjustable in horizontal or vertical display by pressing a button to suit the installation format

### FULL DIGITAL SIGNAL PROCESSOR (DSP) CONTROL

- Double conversion true-on-line technology (VFI) complies with EN60240-3, European Directives for true-on-line technology
- DSP controller's built-in parameters and settings, such as UPS operation modes voltage configurations, synchronization frequency, bypass voltage tolerance and buzzer alarm status, can be modified through the LCD front panel

- Through intelligent self-diagnostics, faulty component can be rapidly pin-pointed which enables your service technicians to repair the UPS very quickly
- High input power factor of 0.97 and low input current THD <3%
- Start-up without mains (cold start)

### CHARACTERISTICS

- Wide input voltage range (120-288VAC) to reduce battery usage and helping to extend their operational life
- Auto restart on mains return (programmable via software)
- Back feed protection as standard to avoid energy feeding back into the mains supply
- Very low noise level (<45dBA)
- Cold start function to allow a MLD to power up with no mains power supply present
- Auto restart at power-up
- Hot-swap user replaceable batteries
- Integrated protection for PC networks and modem connections RJ45
- Generator connection
- Emergency Power Off (EPO) contact
- Unlimited extendable back-up time using modular design Battery Extension Packs
- RS232 serial port and Slot-in SNMP adapter Card
- Optional Isolation Transformer



TYPE	MLD-100S MLD-100L	MLD-200S MLD-200L	MLD-300S MLD-300L	MLD-100SA	MLD-200SA
Power (kVA)	1	2	3	1	2
<b>INPUT</b>					
Phase Configuration	Single-phase + ground				
Nominal Voltage	220/230 VAC			110 VAC	
Voltage range	120-288 VAC			60-145 VAC	
Frequency	50/60 Hz				
Power Factor	≥ .97			≥ .95	
<b>OUTPUT</b>					
Phase Configuration	1Ph + N + PE				
Nominal Voltage	220 VAC ± 2%			110 VAC ± 2%	
Wave Form	Sine wave				
Total Harmonic Distortion					
100% linear load	< 3%				
100% non-linear load	< 6%				
Frequency	50/60 Hz ± 0.2%				
Static Voltage Regulation	1%				
Crest Factor	3:1				
Transfer Time	0 ms				
Overload (105%-125% load)	5 minutes				
Overload (126%-150% load)	60 seconds				
AC/AC Efficiency	≥ 88% AC-AC, minimum (full linear load)				
Battery Mode efficiency	≥ 83% DC-AC, minimum (full linear load)				
<b>BATTERY</b>					
Type	Sealed lead acid, maintenance free				
DC Voltage	36	72	72	36	72
Charging Current	MLD-100S: 1A MLD-100L: 7A	MLD-200S: 1A MLD-200L: 8A	MLD-300S: 1A MLD-300L: 8A	MLD-100SA: 1A	MLD-200SA: 1A
Cold Start	Present				
<b>DISPLAY</b>					
Status on LED + LCD	Line Mode, Back up Mode, Eco Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload, UPS Fault				
Displayed parameters on LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load%, Battery Voltage, Internal Temperature				
Self Diagnostics	Upon Power On, Front Panel Setting and Software Control, 24h Routine Check				
PROTECTION	Overload, Short Circuit, Against Excessive (heat, voltage, current)				
COMMUNICATION INTERFACE	RS-232, Dry Contacts, SNMP (Optional)				
Operating Temperature	0 C.... + 40 C				
Audible Noise at 1 m	45 dBA				
Net Weight	MLD-100S: 17.5kg MLD-100L: 7.8kg	MLD-200S: 8.6kg MLD-200L: 9.6kg	MLD-300S: 9kg MLD-300L: 10kg	17.5	8.6
Dimensions (mm) (WxDxH)	400x440x88	2x 400x440x88		400x440x88	2x 400x440x88
<b>STANDARDS</b>					
Safety	EN62040-1-1				
EMC/EMI	EN62040-2/IEC61000-4-3/IEC61000-4-4/IEC61000-4-5				
Performance	EN62040-3				
Protection Class	IP 21				

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