



**Allis Electric Co., Ltd.**

UNINTERRUPTIBLE  
POWER SUPPLY



## MD Series

### Key Features

- LCD Front Panel Display.
- CPU controlled UPS.
- True RS232 interface via dual communication port.
- True on-line operation, 5kVA to 15kVA.
- High frequency 20KHz inverter.
- Low distortion less than 3%.
- High crest ratio is 3:1.
- Manual by-pass switch.
- Front I/O access, minimum maintenance space.
- Modular structure, easy maintenance.
- Fast transient response.
- Over load and short circuit protection.
- Automatic retransfer or static transfer switch (STS) after overload.
- Most advanced IGBT component.



## Specifications

Model	MD1050 MD3050	MD1075 MD3075	MD1100 MD3100	MD1200 MD3120	MD3150
Rated Power (at p.f.=0.8)	5KVA/4KW	7.5KVA/6KW	10KVA/8KW	12KVA/9.6KW	15KVA/12KW
<b>Input</b>					
Voltage	220V/230V/240V±15% or 380V/220V, 400V/230V, 415V/240V±15%				
Frequency	50Hz or 60Hz±5%				
Phase	1φ2ω+G or 3φ3ω+3φ4ω+G				
<b>Output</b>					
Voltage	100V/110V/120V or 220V/230V/240V				
Phase	1φ2ω+G				
Voltage Regulation	±1%				
Frequency	50Hz or 60Hz				
Frequency Stability	±0.5%				
Transient Condition	±4% for 100% instantaneous load variation, recover to ±1% after 25ms				
Harmonic Distortion	3% at 100% linear load				
Waveform	Sine wave				
Crest Ratio	3:1				
Overload Capacity	150% for 25 seconds				
<b>Efficiency</b>					
Complete Unit	84%				
Inverter	90%				
<b>Battery</b>					
DC Voltage	192VDC				
Type	12V7AH	12V17AH	12V26AH		12V40AH
Back-Up Time At Full Load	18 min.	14 min.	17 min.	13 min.	15 min.
Recharging Time	10 hours to 90% after fully discharged				
Battery Completely Discharged	Auto cut-off inverter Inverter auto-restart when line recovers				
<b>Transfer time</b>					
Mains Fail or Recover	Zero				
UPS to BYPASS or Vice Versa	2ms. at full load				
Ups Fault	2ms. transfer to bypass				
Overload	2ms Transfer to bypass, auto-transfer to inverter 25 secs after decreasing load				
<b>Audible alarm</b>					
Battery Discharge	Sounding every four seconds after main fails (alarm can be silenced by pushing the buzzer silent button) Sounding once every one second as battery approaches final discharge (alarm can not be silenced)				
Fault	Continuous (cannot be silenced)				
Noise	60dB / at one meter				
<b>Environment</b>					
Temperature	0°C to 40°C (32 °F to 104 °F )				
Humidity	30% to 90% (non-condensing)				
Weight(kgs)	102.5	141	173		212.5
Dimension LxWxH (mm)	655x270x700		700x490x883		

- All information contained in this brochure is purley indicative and can not be used to form any contractual obligations.
- Specification or design can be changed at anytime without notice.

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