When All Others Fail
Turn to Clary’s 60 years of technical expertise, and our unmatched experience in providing high performance and reliable UPS systems for applications ranging from extreme temperature environments to offshore drilling rigs, military shipboard, 911 emergency systems or hospital grade medical systems. Clary starts where the competition stops.

Reliability
Clary units supply reliable Continuous Digital Power during brownouts, dirty unstable electrical power and loss of input power. Unlike most other UPS systems, the CMN Series will run continuously from batteries or auxiliary generator systems as long as power is available.

True On-Line Technology
Clary specializes exclusively in True On-Line Double Conversion system. This technology provides ultimate protection from all power anomalies, keeping mission-critical applications out of harm’s way. Our systems provide a digitally controlled precision regenerated output sinewave, unlike common standby or line interactive designs.

Uncompromising Performance
Clary CMN products are not for everyone.... they are specifically designed for mission-critical applications where there is no room for error.... when you just can’t afford downtime! Our products are designed, manufactured and serviced by Clary, providing our customers the highest level of power protection.

Communications
Connectivity features include remote control, configuration and monitoring of the UPS. Clary products are compatible with all major network operating systems.

Off-the-shelf and Custom Solutions
In 1977, Clary Corporation pioneered On-Line Double Conversion UPS technology, and in 1996 introduced digital control for continuous power UPS systems for mission-critical applications. Today, Clary manufactures a variety of superior power products here in the USA, and can customize specs to meet your application requirements. What’s more, our in-house field service department consistently sets the industry standard. Clary systems are found in hospitals, police and fire emergency systems, oil fields, rugged industrial applications, traffic signals, computer networks, military aerospace systems and numerous other applications.

Features List
- Small size - 5¼” high rack
- Power Factor Corrected to near unity
- Rackmount version fits into standard 19” Rack
- Outputs can be controlled remotely or from front panel
- Software selectable configuration (output frequency, voltage, alarms, auto turn-off, etc.)
- Automatic bypass & battery test
- Unit can be started with out AC present (Cold Start)
- Many options available for custom configurations

<table>
<thead>
<tr>
<th>TOWER MODEL</th>
<th>RACK MODEL</th>
<th>RATING WATTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>CMN3000R</td>
<td>3,000 VA 2,100</td>
</tr>
</tbody>
</table>

Where POWER is a way of life
### ELECTRICAL

#### Input

<table>
<thead>
<tr>
<th>Voltage Ranges</th>
<th>120 VAC +12%, -25% (without battery discharge)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>45 to 65 Hz</td>
</tr>
<tr>
<td>Isolation</td>
<td>Transformer Isolation</td>
</tr>
</tbody>
</table>

#### Output

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC ±3%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>Software Selectable to Sync with Input Utility or Run at Crystal Controlled 50/60 Hz ±1 Hz</td>
</tr>
<tr>
<td>Current (50% Load)</td>
<td>Up to 4.8:1</td>
</tr>
<tr>
<td>Current (75% Load)</td>
<td>Up to 3.2:1</td>
</tr>
<tr>
<td>Crest Factor Ratio</td>
<td>3% Max. (Linear) / 5% Max. (Non-linear)</td>
</tr>
<tr>
<td>Dynamic Response</td>
<td>±4% for 100% Step Load Change 0.5 ms Recovery Time</td>
</tr>
<tr>
<td>Overload</td>
<td>110% for 10 sec; 200% for .05 sec</td>
</tr>
<tr>
<td>Efficiency</td>
<td>92% (typical)</td>
</tr>
<tr>
<td>UPS Protection</td>
<td>Input and Output Short Circuit; Input and Output Overload; Excessive Battery Discharge</td>
</tr>
</tbody>
</table>

#### ENVIRONMENTAL

- **Operating Temperatures:** CMN3000R: 0°C to +55°C (32°F to +131°F)
- **Humidity:** 0% to 95% Non-condensing
- **Altitude:** Sea Level to 10,000 ft (some derating of temp. w/altitude)
- **Noise Level:** 46 dBA at 5 ft

#### MECHANICAL

- **Input:** NEMA L5-30P Plug w/6 ft Cord
- **Outputs (typical):** Load 1 and 2 (3 each) NEMA Type 5-20R receptacles

### CUSTOM OPTIONS

Hardwire Input/Output; Input Circuit Breaker; Emergency Power Off Connection; Input Air Filter; Slide Rail Kit; etc. Contact factory for other custom options.

### DESIGN

**Standard Features:**
- Power Factor Corrected Input;
- Fully Regenerative; True On-Line;
- Low Distortion Sinewave Output;
- Inverter Powers Load Continuously;
- Designed for Non-linear Loads;
- Extended Brownout Protection;
- Continuous Operation on -25% to +12% Utility w/o Draining Batteries;
- Automatic Bypass;
- RS232 Data Interface; AC Output - 2 Channel Load Control; Rear Mounted Ground Stud

**Specifications:**
- UL 1778; CUL; FCC Class A;
- IEEE 587/ANSI C62.41; IEC 555 @120 VAC
- MTBF: In Excess of 100,000 hrs
- Typical Recharge: 8 hrs (more time required with extended battery option)
- Time to 85% Capacity: @100% Load

### CONTROLS AND INDICATORS

- **Sequenced LEDs:**
  - Battery Level;
  - Load Level
- **Single LED:**
  - AC In;
  - Inverter On;
  - Load On;
  - Summary Alarm;
  - Alarm Silence
- **Front Panel Controls:**
  - Power On;
  - Load I On/Off;
  - Cold Start;
  - Load II On/Off;
  - Alarm Silence;
  - Test
- **Audible Alarms:**
  - Utility Interrupt;
  - Inverter Failure;
  - Overload;
  - Low Battery;
  - Self Test
- **RS-232 Data Interface (DB-9):** Full Interactive Remote Computer Monitoring and Control of Most Features, Including Load Control (requires optional monitoring software). Compatible with: Systems Enhancement™ UPS Control Software.
- **Contact Closure (DB-9):** Open Collector
- **Optional SNMP Interface:** Allows Full Control and Monitoring over Network Connection. Compatible with HP OpenView™, IBM Netview™, CA Unicenter TNG™, and Other Major UPS Software systems.

### COMPLIANCE

- Manufactured to meet Mil-Std specifications, not certified to
- Shock & Vibration: Mil-Std. 167 & 901D
- Radiated & Conducted EMI: CS101,116, CE101, 102 - FCC Class A
- Specifications subject to change without prior notice.

### Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Rackmount</th>
<th>Model</th>
<th>Rackmount</th>
<th>VA</th>
<th>Watts</th>
<th>Input Current (A)</th>
<th>Output Current (A)</th>
<th>Backup Time</th>
<th>Unit Weight (lbs)</th>
<th>Rackmount H x W x D (in)</th>
<th>Tower H x W x D (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMN3000R</td>
<td>N/A</td>
<td>3,000</td>
<td>2,100</td>
<td>21.0</td>
<td>25.0</td>
<td>10 / 25</td>
<td>85</td>
<td>5.25 x 19.0 x 23.0 (3U)</td>
<td>N/A</td>
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<td></td>
</tr>
<tr>
<td>CMN9600DBR</td>
<td>Dual String External Battery</td>
<td>Chassis</td>
<td>96</td>
<td>3.25 x 19.0 x 23.0 (2U)</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>