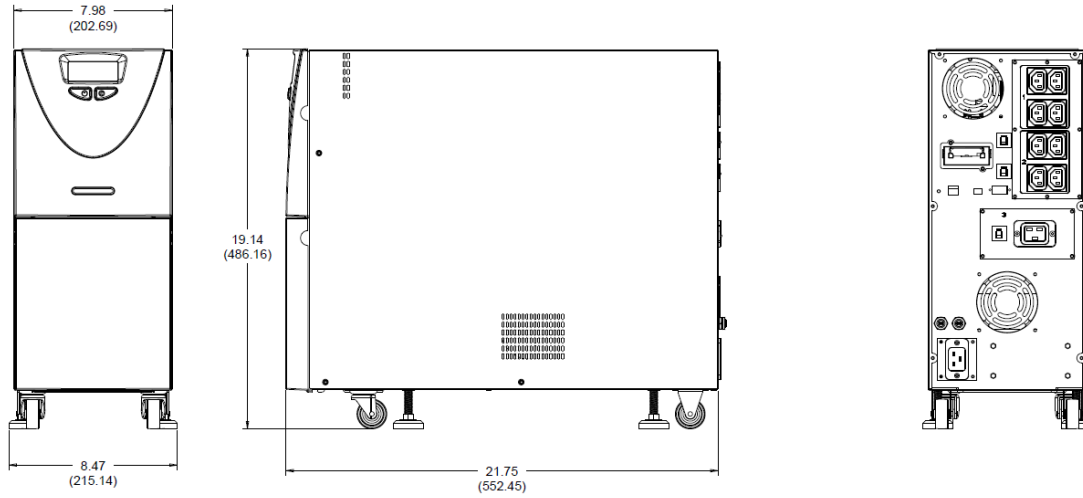


## Security II UPM Specifications



	<b>ABCE2202-22 51220-03R</b>	<b>ABCE2202-22MED 51220-23R</b>
<b>Type</b>	Standard	Medical
<b>Power Rating (VA/Watts)</b>	2200 / 1980	2200 / 1980
<b>Inverter Waveform</b>	Low Distortion Sine Wave	Low Distortion Sine Wave
<b>Transfer Time</b>	4 ms. Typical	4 ms. Typical
<b>Frequency</b>	50 / 60 Hz.	50 / 60 Hz.
<b>BTU/Hr.</b>	375	375
<b>T.H.D. Max. w/100% Resistive Load</b>	<4% On Battery	<4% On Battery
<b>Online Efficiency (w/o Charger)</b>	95%	95%
<b>Input Voltage</b>	230	230
<b>Input Current</b>	16.0 Amps	16.0 Amps
<b>Output Voltage</b>	230	230
<b>Output Current (VA/Watts)</b>	9.55 / 8.60 Amps	9.55 / 8.60 Amps
<b>Input Voltage Range (w/o Using Battery)</b>	185 to 276 Volts	185 to 276 Volts
<b>Output Regulation (On Mains)</b>	± 10%	± 10%
<b>Output Regulation (On Battery)</b>	± 5%	± 5%
<b>Backup Time at Full Load (0.7 P.F)</b>	> 5 Minutes	> 5 Minutes
<b>Communications Interface</b>	DB9, USB (SNMP Optional)	DB9, USB (SNMP Optional)
<b>Shipping Weight (kg)</b>	75	75
<b>Dimensions (in/mm) LxWxH</b>	7.98 x 21.75 x 19.14 / 202.69 x 552.45 x 486.16	7.98 x 21.75 x 19.14 / 202.69 x 552.45 x 486.16
<b>Output Receptacle</b>	Eight (8) IEC320 C13 and (1) IEC320 C19	Eight (8) IEC320 C13 and (1) IEC320 C19

<p><b>Front Panel Controls</b></p> <ul style="list-style-type: none"> <li>• Power On/Off</li> <li>• Test</li> <li>• Load Level LED Gauge</li> <li>• Battery Charge LED Gauge</li> <li>• Voltage Manager Boost LED</li> <li>• Voltage Output On LED</li> <li>• Voltage Manager Buck LED</li> <li>• On Battery LED</li> <li>• Replace Battery LED</li> <li>• Overload LED</li> <li>• Fault Code LED</li> <li>• System Over Temperature LED</li> </ul> <p><b>Rear Panel Information and Controls</b></p> <ul style="list-style-type: none"> <li>• 1.8 Meter Power Cord with IEC320 Plug</li> <li>• Configuration Manager DIP Switches</li> <li>• Communications Manager DB9 Port, USB Port</li> <li>• Circuit Breaker</li> <li>• AC Inlet Module</li> <li>• SNMP Slot (Contact Factory)</li> </ul> <p><b>Internal Batteries</b></p> <ul style="list-style-type: none"> <li>• User Hot-Swappable (See Instruction Manual)</li> <li>• Type: 12 Volt, High Rate 34W</li> <li>• Quantity: 8 Batteries</li> <li>• Recharge Time: 8 Hours to 80%, 24 Hours to Full Charge</li> </ul> <p><b>Environmental</b></p> <ul style="list-style-type: none"> <li>• Temperature: 0 - +40<sup>0</sup> C (32 to 104<sup>0</sup>F) Operating -20 to 60<sup>0</sup> C (-40 to 140<sup>0</sup> F) Shipment/Storage</li> <li>• Humidity: 5 to 90% Non-Condensing (Operating, Shipment/Storage)</li> <li>• Altitude: 3,000m (10,000 ft) max. Operating; 12,000m (40,000 ft) max. Shipment/Storage.</li> </ul>	<p><b>Safety Agency and EMC Compliance:</b> All Units are Listed by UL and Marked with the UL/cUL Marking.</p> <p><b>Standard UPM:</b> <b>Products Listed To:</b></p> <ul style="list-style-type: none"> <li>• UL IEC62040, CE Mark with CB Report</li> </ul> <p><b>Products in compliance with:</b></p> <ul style="list-style-type: none"> <li>• FCC-Part 15, Subpart B, Sections 15.107b &amp; 15.109b Class A Digital Device*</li> <li>• CISPR11:2009, A1; 2010, Class A*</li> <li>• IEC61000-4-2, Electrostatic Discharge</li> <li>• IEC61000-4-3, Radiated Electromagnetic Field Immunity</li> <li>• IEC61000-4-4, Electrical Fast Transient/Burst Immunity</li> <li>• IEC61000-4-5, Surge Immunity</li> <li>• IEC61000-4-6, Immunity to Conducted Radio Frequency Disturbances</li> <li>• IEC61000-4-8, Power Frequency Magnetic Field Immunity</li> <li>• IEC61000-4-11, Voltage Dips, Short Interruptions, and Voltage Variations</li> </ul> <p><b>Medical UPM:</b></p> <ul style="list-style-type: none"> <li>• UL60601-1 2nd and 3rd Edition, CE Mark with CB Report</li> <li>• CSA 22.2 No. 601.1-M89</li> <li>• CSA 22.2 No. 107-1-M91</li> <li>• CSA 22.2 Nos. 0-M1982</li> <li>• CSA 22.2 Nos. 0.4-M1982</li> </ul> <p><b>Products in Compliance with:</b></p> <ul style="list-style-type: none"> <li>• FCC-Part 15, Subpart B, Sections 15.107b &amp; 15.109b Class A Digital Device*</li> <li>• CISPR11:2009, A1; 2010, Class A*</li> <li>• EN60601-1-2 : 2007</li> </ul> <p><b>*Note: Class B is Available as an Option Please Consult Your Powervar Sales Representative</b></p> <p><b>RoHS Compliance:</b> All Products (Standard and Medical) are RoHS Compliant</p>
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**NOISE REJECTION-ISOLATION:** With unit under power and an ANSI/IEEE C62.41Cat. A pulse applied either normal or common mode at the input, the noise output voltage will be less than 10V normal mode and less than 0.5V common mode in all four quadrants (CM-NM, NM-NM, CM-CM, NM-COM).

**SURGE VOLTAGE WITHSTAND CAPABILITY:** Tested under power to ANSI/IEEE C62.41 Cat. A & B (formerly IEEE587-1980). Cat. A - 6000V @ 200 amps, 0.5 usec risetime, 100 kHz decay, Cat. B - 6000V @ 500 amps, 0.5 usec risetime, 100 kHz decay.

**Warranty/Support:** POWERVAR warrants the electronics and transformers used in its uninterruptible power managers to be free from defects in materials and workmanship for a period of five years from the date of shipment. Batteries are warranted for a period of two years from the date of shipment. For service or support on any POWERVAR product, please contact POWERVAR Technical Support at (800) 369-7179 or visit the POWERVAR website at [www.powervar.com](http://www.powervar.com).

**Battery Life Disclaimer:** POWERVAR's standard battery warranty applies only to UPS and UPM products which are continuously connected to AC mains power, except during utility power outages. Products which are regularly and intentionally disconnected from AC mains power will experience battery discharge/charge cycles potentially far more numerous than those for which the battery was designed. As a result, products used in such applications will experience substantially reduced battery life. For that reason, POWERVAR's standard battery warranty does not apply for applications in which the UPS or UPM product is regularly and intentionally disconnected from AC mains power. POWERVAR UPS and UPM products used in such applications shall receive a 90 day warranty on batteries.