FEATURES

• Flame-arresting one-way pressure-relief vent for safety and long life.
• Thermally welded case-to-cover bond to eliminate leakage.
• Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
• Computer-generated grid design optimized for high power density.
• UL-recognized component.
• Multicell design for economy of installation and maintenance.
• Can be mounted in any orientation.
• Not restricted for air transport – Complies with IATA/ICAO Special Provision A67
• Not restricted for surface transport – Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
• Computer designed lead, low calcium alloy grid for minimal gassing and ease of recycling.
• Case and cover available in both standard and flame retardant polypropylene.
• Flame retardant polypropylene case and cover compliant with UL 1778 (optional).

12 Volts – 91 Watts Per Cell For 15 Minutes to 1.67 Volts per Cell

Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

<table>
<thead>
<tr>
<th>End Point Volts/Cell</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>45</th>
<th>50</th>
<th>60</th>
<th>90</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.67</td>
<td>172</td>
<td>117</td>
<td>91</td>
<td>75</td>
<td>57</td>
<td>47</td>
<td>43</td>
<td>40</td>
<td>35</td>
</tr>
</tbody>
</table>
### UPS12-100 – Specifications

<table>
<thead>
<tr>
<th>Cells Per Unit</th>
<th>Voltage Per Unit</th>
<th>Weight</th>
<th>Electrolyte</th>
<th>Maximum Discharge Current</th>
<th>Short Circuit Current</th>
<th>Ohms Imped. 60 Hz (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>12.84</td>
<td>21 lbs.</td>
<td>10 kg</td>
<td>Absorbed H₂SO₄</td>
<td>500 Amps</td>
<td>1750 Amps</td>
</tr>
</tbody>
</table>

**Capacity**  
91.0 watts per cell at the 15 minute rate to 1.67 volts per cell at 77°F (25°C).  
26.0 Ah @ 20 hr. rate.  
7.5 volts per cell @ 77°F (25°C)  
25.6 Ah @ 10 hr. rate to 1.80 volts per cell @ 20°C (68°F)

**Operating Temperature Range**  
Discharge: -40°F (-40°C) to +160°F (71°C).  
Charge: -10°F (-23°C) to +140°F (60°C)  
(with temperature compensation)

**Nominal Operating Temperature Range**  
+74°F (23°C) to +80°F (27°C)

**Float Charging Voltage**  
13.5 to 13.8 VDC/unit Average at 77°F (25°C).

**Recommended Maximum Charging Current Limit**  
C/5 amperes (5.2 amperes @ 100% depth of discharge) @ 20 hour rate

**Equalization and Cycle Service Charging Voltage**  
14.4 to 14.8 VDC/unit Average at 77°F (25°C).

**Maximum AC Ripple (Charger)**  
0.5% RMS or 1.5% P-P of float charge voltage recommended for best results.  
Maximum voltage allowed = 1.4% RMS (4% P-P)  
Maximum current allowed = 1.3 amperes RMS (C/20)

**Self Discharge**  
Dynasty UPS batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required.  
For higher temperatures the time interval will be shorter.

**Accessories**  
Inter unit connectors, racks and cabinet systems are available.

**Terminal**  
Rag terminal with 0.22" clearance hole to accept 0.1875" bolt.

**Terminal Hardware Initial Torque**  
40 in.-lbs. (4.5 N·m).

**Terminal Hardware Annual Retorque**  
32 in.-lbs. (3.48 N·m).

### Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

<table>
<thead>
<tr>
<th>End Point Volts/Cell</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>45</th>
<th>50</th>
<th>60</th>
<th>90</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.75</td>
<td>158</td>
<td>111</td>
<td>87</td>
<td>73</td>
<td>56</td>
<td>46</td>
<td>42</td>
<td>39</td>
<td>34</td>
<td>24</td>
</tr>
<tr>
<td>1.70</td>
<td>168</td>
<td>115</td>
<td>90</td>
<td>75</td>
<td>57</td>
<td>47</td>
<td>43</td>
<td>40</td>
<td>35</td>
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<td>40</td>
<td>35</td>
<td>24</td>
</tr>
<tr>
<td>1.65</td>
<td>174</td>
<td>118</td>
<td>91</td>
<td>76</td>
<td>57</td>
<td>47</td>
<td>43</td>
<td>40</td>
<td>35</td>
<td>25</td>
</tr>
<tr>
<td>1.60</td>
<td>179</td>
<td>119</td>
<td>92</td>
<td>76</td>
<td>58</td>
<td>47</td>
<td>43</td>
<td>40</td>
<td>35</td>
<td>25</td>
</tr>
</tbody>
</table>

### Constant Current Discharge Ratings – Amperes @ 77°F (25°C)

<table>
<thead>
<tr>
<th>End Point Volts/Cell</th>
<th>.083</th>
<th>.25</th>
<th>.50</th>
<th>.75</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>5</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>20</th>
<th>24</th>
<th>72</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.90</td>
<td>51.1</td>
<td>33.0</td>
<td>22.4</td>
<td>18.2</td>
<td>14.0</td>
<td>8.30</td>
<td>6.05</td>
<td>3.94</td>
<td>2.62</td>
<td>2.14</td>
<td>1.82</td>
<td>1.14</td>
<td>0.96</td>
<td>0.34</td>
<td>0.24</td>
</tr>
<tr>
<td>1.85</td>
<td>62.8</td>
<td>38.4</td>
<td>25.3</td>
<td>20.5</td>
<td>15.6</td>
<td>9.10</td>
<td>6.60</td>
<td>4.29</td>
<td>2.85</td>
<td>2.33</td>
<td>1.98</td>
<td>1.24</td>
<td>1.05</td>
<td>0.37</td>
<td>0.26</td>
</tr>
<tr>
<td>1.80</td>
<td>72.3</td>
<td>42.1</td>
<td>27.1</td>
<td>21.8</td>
<td>16.4</td>
<td>9.50</td>
<td>6.86</td>
<td>4.45</td>
<td>2.95</td>
<td>2.41</td>
<td>2.05</td>
<td>1.28</td>
<td>1.08</td>
<td>0.38</td>
<td>0.27</td>
</tr>
<tr>
<td>1.75</td>
<td>80.0</td>
<td>44.3</td>
<td>28.1</td>
<td>22.5</td>
<td>16.9</td>
<td>9.75</td>
<td>7.00</td>
<td>4.53</td>
<td>3.00</td>
<td>2.45</td>
<td>2.08</td>
<td>1.30</td>
<td>1.10</td>
<td>0.39</td>
<td>0.28</td>
</tr>
</tbody>
</table>

**Note:** Batteries to be mounted with 0.5 in (1.25 cm) spacing minimum and free air ventilation.  
Specifications subject to change without notification.