UPS12-200
VALVE REGULATED
LEAD ACID BATTERY
FOR UPS STANDBY
POWER APPLICATIONS
12V 54 AH @ 20 HR RATE,
12V  203 WATTS/CELL
@ 15 MIN. RATE

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 – 203 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>1.67</td>
<td>370</td>
<td>255</td>
<td>203</td>
<td>168</td>
<td>125</td>
<td>101</td>
<td>92</td>
<td>85</td>
<td>74</td>
<td>53</td>
</tr>
</tbody>
</table>
**UPS12-200**

**UPS12-200 – 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>40 lbs</td>
<td>Absorbed H₂SO₄, SG = 1.300</td>
<td>600 Amps</td>
<td>3000 Amps @ 0.1 sec.</td>
<td>0.0045 Ohms</td>
</tr>
</tbody>
</table>

**Capacity**
203 watts per cell at the 15 minute rate to 1.67 volts per cell at 77°F (25°C). 54 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C). 49 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**
0.5 amps (10.8 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 = 2.7 amperes RMS (Ω20)

**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**
"L" terminal with 0.28" clearance hole to accept 0.25" (6mm) 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>338</td>
<td>240</td>
<td>194</td>
<td>162</td>
<td>122</td>
<td>99</td>
<td>90</td>
<td>83</td>
<td>72</td>
<td>52</td>
</tr>
<tr>
<td>1.70</td>
<td>360</td>
<td>251</td>
<td>200</td>
<td>167</td>
<td>124</td>
<td>100</td>
<td>92</td>
<td>84</td>
<td>73</td>
<td>53</td>
</tr>
<tr>
<td>1.67</td>
<td>370</td>
<td>255</td>
<td>203</td>
<td>168</td>
<td>125</td>
<td>101</td>
<td>92</td>
<td>85</td>
<td>74</td>
<td>53</td>
</tr>
<tr>
<td>1.65</td>
<td>375</td>
<td>257</td>
<td>204</td>
<td>169</td>
<td>126</td>
<td>101</td>
<td>92</td>
<td>85</td>
<td>74</td>
<td>53</td>
</tr>
<tr>
<td>1.60</td>
<td>387</td>
<td>261</td>
<td>206</td>
<td>170</td>
<td>126</td>
<td>102</td>
<td>93</td>
<td>86</td>
<td>74</td>
<td>53</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>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>131</td>
<td>78.6</td>
<td>51.3</td>
<td>38.9</td>
<td>31.3</td>
<td>18.2</td>
<td>13.0</td>
<td>8.35</td>
<td>5.50</td>
<td>4.49</td>
<td>3.80</td>
<td>2.37</td>
<td>1.99</td>
<td>0.70</td>
</tr>
<tr>
<td>1.85</td>
<td>153</td>
<td>90.4</td>
<td>57.7</td>
<td>43.3</td>
<td>34.5</td>
<td>19.8</td>
<td>14.1</td>
<td>9.05</td>
<td>5.96</td>
<td>4.87</td>
<td>4.12</td>
<td>2.57</td>
<td>2.17</td>
<td>0.76</td>
</tr>
<tr>
<td>1.80</td>
<td>172</td>
<td>98.7</td>
<td>61.9</td>
<td>46.1</td>
<td>36.5</td>
<td>20.8</td>
<td>14.7</td>
<td>9.45</td>
<td>6.21</td>
<td>5.07</td>
<td>4.29</td>
<td>2.67</td>
<td>2.25</td>
<td>0.79</td>
</tr>
<tr>
<td>1.75</td>
<td>189</td>
<td>104</td>
<td>64.4</td>
<td>47.7</td>
<td>37.6</td>
<td>21.3</td>
<td>15.1</td>
<td>9.63</td>
<td>6.32</td>
<td>5.16</td>
<td>4.36</td>
<td>2.72</td>
<td>2.29</td>
<td>0.80</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.