TECHNICAL DATA SHEET

DGY12-69

Applications

- Electric pedestrian stacker
- Other general purpose

General Features

- Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- Long cycle life, excellent deep cycle discharge ability
- Excellent charge acceptance ability
- Precision sealing technology
- Long life

Specification

- Nominal Voltage: 12V
- Nominal Capacity: 87.6 Ah
- Terminal: M8
- Approx. Weight: Approx 30.4kg (67.1lbs)
- Container Material: ABS
- Rated Capacity
  - 87.6Ah: 20Hour Rate
  - 75.8Ah: 10Hour Rate
  - 71.1Ah: 5Hour Rate
  - 45.4Ah: 1Hour Rate
- Internal resistance: Full charged at 25°C: 8.4 mΩ
- Max. Discharge Current: 830A(5S)
- Operating Temperature
  - Charge: -20 ~50°C (-4 ~ 122°F)
  - Storage: -20 ~50°C (-4 ~ 122°F)
- Charge current: Max. 17.5A : Recom. 7.0A
- Charge Method (25 °C)
  - Float Charge: 13.5-13.8V, recom. 13.8 V (-18mV / °C)
  - Equalize charge: 13.8-14.1V, recom. 14.1 V (-24mV / °C)
  - Cycle charge: 14.4-15.0V, recom. 14.7 V (-30mV / °C)
- Self discharge: 2% of capacity declined per month at 25°C

Dimension: 250(L)×150(W)×396(H)×401TH) Unit: mm
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### Constant Current Discharge Characteristics

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>10MIN</th>
<th>15MIN</th>
<th>30MIN</th>
<th>1HR</th>
<th>2HR</th>
<th>3HR</th>
<th>4HR</th>
<th>5HR</th>
<th>8HR</th>
<th>10HR</th>
<th>20HR</th>
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<tbody>
<tr>
<td>1.60V</td>
<td>141.64</td>
<td>114.89</td>
<td>75.28</td>
<td>51.88</td>
<td>28.59</td>
<td>21.53</td>
<td>17.18</td>
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<td>109.90</td>
<td>72.39</td>
<td>50.14</td>
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<td>102.82</td>
<td>69.25</td>
<td>48.40</td>
<td>27.02</td>
<td>20.30</td>
<td>16.26</td>
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<td>112.79</td>
<td>95.74</td>
<td>66.10</td>
<td>46.66</td>
<td>25.94</td>
<td>19.70</td>
<td>15.84</td>
<td>13.86</td>
<td>9.36</td>
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<td>102.03</td>
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<td>63.21</td>
<td>44.92</td>
<td>25.02</td>
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<td>54.56</td>
<td>40.29</td>
<td>22.92</td>
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### Constant Power Discharge Characteristics

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<td>84.03</td>
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Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.
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Discharge characteristic

Charging characteristic

The effect of temperature on capacity

The effect of discharge depth on cycle life

Curves of self-discharge

Curves of open circuit voltage vs. capacity

Discharge voltage (V)

Capacity (%)

Charge voltage (V)

Charge current (A)

Charge capacity (Ah)

Charge time (h)

Time (hour)

Ambient temperature (°C)

Capacity (%)

Time (h)

Storage time (months)

Remainder capacity (%)

Remaining capacity (%)