Precautions for Safe Use

* To use the battery safely and properly, be sure to read the instruction manual before use.

⚠️ Danger

- For stationary batteries, ensure that the room is well ventilated so that the hydrogen concentration is 0.8% or less.
- Failure to do so may cause fire or explosion.
- Do not install the battery in a poorly ventilated area where the hydrogen concentration becomes more than 0.8%, or near open flames. Doing so may cause fire or explosion.

⚠️ Caution

- The service temperature range of the battery is from -15 to 45°C. Using the battery outside this range may accelerate deterioration or cause the battery to freeze or overheat, resulting in damage or deformation.
- Do not use the battery where it is exposed to direct sunlight. Doing so may cause the parts of the battery to deteriorate.
- Do not expose the battery to water or seawater. Doing so may cause damage to the battery or fire, or cause the terminals or connecting parts to corrode.
- Do not use the battery near a heat source. Doing so may cause damage to the battery or cause the battery life to shorten.
- Do not use the battery in dusty areas. Doing so may cause a short-circuit.
- Charge the battery under the charging conditions recommended by Furukawa Battery. Failure to do so may result in insufficient charging, electrolyte leakage, temperature rise, explosion, deterioration in performance, or reduced service life.
- Install the battery horizontally with the terminals facing up and ensure that the battery is not tilted more than 10°. Failure to do so may cause electrolyte leakage.
- Ensure that the maximum discharge current is not exceeded for more than 1 minute for 3G (A) or for more than 5 seconds for 6G (A). Failure to do so may cause damage to the battery.
- Periodically inspect the battery. If the results deviate from the standards specified in the instruction manual, follow this step in the instruction manual. Using the battery with such deviations may cause damage to the battery, or termination.

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*Actual colors may differ slightly from those in the photo due to printing limitations.

Contact Information

**THE FURUKAWA BATTERY CO., LTD.**

Head Office:
24-1, Nishiochiai, Higashiyokosuka, Kanagawa Prefecture 241-0046 Japan
http://www.furukawabattery.co.jp

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*Information contained in this catalogue is current as of November 2011 and may be subject to change without notice. For detailed information, please contact the Industrial Equipment Sales Department.*
Features
1. Space Savings
   Compact size with high capacity

2. Long Expected Life
   Expected life of 13 to 15 years (25°C, 0.1C (A) discharge) **Expected life is not a guaranteed value.**

3. Easy Maintenance
   All the cell terminals are in an easily-reachable location, facilitating maintenance work such as voltage measurement.

4. Improved Seismic Performance
   Because of its utilized structure, there is no concern of the battery jumping even if it is subject to vertical seismic motion.

5. Shorter Installation Time
   The utilized structure has reduced the time needed to install the battery.

Applications
Communication devices, instrumentation devices, disaster and crime prevention systems, power plants and substations, CVCF emergency lighting systems, and more

Construction/Specifications

1. Cells
   ● Plates: Highly corrosion-resistant PbCaSn alloy plate
   ● Container: Excellent sealing with highly heat- and acid-resistant PP resin thermally bonded to the cover
   ● Terminals: Shorter installation time with a nut/locking structure in which the nuts are embedded in the poles

2. Unit Battery
   Battery units are an iron box which houses the required number of cells, which are then stacked to form an assembly battery.

Assembly Battery

<table>
<thead>
<tr>
<th>Model</th>
<th>Battery Type</th>
<th>Dimensions (W x H x D) (mm)</th>
<th>Weight (kg)</th>
<th>Voltage (V)</th>
<th>Capacity (Ah)</th>
<th>Design (A)</th>
<th>Discharge Current (A)</th>
<th>Life Span (Years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMU-S-550</td>
<td>5.5 Ah</td>
<td>147 x 136 x 160</td>
<td>12</td>
<td>5.5</td>
<td>20.5</td>
<td>600</td>
<td>500</td>
<td>5</td>
</tr>
<tr>
<td>FMU-S-650</td>
<td>6.5 Ah</td>
<td>147 x 136 x 160</td>
<td>13</td>
<td>6.5</td>
<td>25.5</td>
<td>600</td>
<td>500</td>
<td>5</td>
</tr>
<tr>
<td>FMU-S-850</td>
<td>8.5 Ah</td>
<td>147 x 136 x 160</td>
<td>14</td>
<td>8.5</td>
<td>33.5</td>
<td>600</td>
<td>500</td>
<td>5</td>
</tr>
</tbody>
</table>

Comparison between the FMU-S Series and the MSE Series

<table>
<thead>
<tr>
<th>Model</th>
<th>FMU-S Series</th>
<th>MSE Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMU-S-550</td>
<td>5.5 Ah</td>
<td>5.5 Ah</td>
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<td>6.5 Ah</td>
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</tr>
<tr>
<td>FMU-S-850</td>
<td>8.5 Ah</td>
<td>8.5 Ah</td>
</tr>
</tbody>
</table>

Note:
1. The dimensions are for the FMU-550, 650, and 850 models, and 250 indicates a Series model.
2. The capacity values include the height of the charger.
3. The battery capacity values listed are for the FMU-S Series.
4. For further specifications, see the equipment data sheet for each model.
5. The dimensions in this table are the maximum values for assembled batteries with standard components.