INDUSTRIAL LITHIUM-ION BATTERY

LIM25H MODULE

Based on more than 20 years of experience developing and manufacturing industrial lithium-ion batteries, GS Yuasa has developed the LIM25H series of high-power batteries.

High specific power density!
25Ah capacity
Charge or Discharge at up to 600A(24C) peak currents

Cost effective!
Due to high power characteristics there is no need to over-size the system.

Capable of more than 10,000 cycles at 100% depth of discharge! ※

Suitable for many high-power applications such as:
- Industrial hybrid systems (AGV, cranes, trains, etc.)
- High-power energy storage systems
- Systems requiring very fast recharging
- Other industrial high-power systems...

※ GY test condition.
Charging/Discharging rate: 25A
Ambient temperature: 25°C
Monitoring and Communication Features:

- Monitors individual cell voltages and module temperature.
- Performs cell balancing.
- Battery data and status signals are output to the host device via CANbus or RS485.
- Monitoring and control of fan operation (if fan option is selected).

### System Design (example)

![System Design Diagram]

- **Lithium Ion Battery Manager (LIBM):**
  - Monitors and controls battery performance within safe operating limits.
  - Monitors: individual cell voltages, over & under temperature, SOC, over-current, over-charge, fault detection etc.

### Charge / Discharge characteristics (example)

![Charge/Discharge Characteristics Graph]

- **Charge:** Each CA to 4.19V, CC/CV (hours at 25°C).
- **Discharge:** Each CA to 2.7V at 25°C.

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal capacity (Ah)</th>
<th>Cell Qty</th>
<th>Nominal Voltage (V)</th>
<th>Max pulse charge / discharge current</th>
<th>Dimensions (mm)</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIM25H-8</td>
<td>25</td>
<td>8</td>
<td>28.8</td>
<td>600 (24C)</td>
<td>219 x 440</td>
<td>17.5</td>
</tr>
<tr>
<td>LIM25H-12</td>
<td>25</td>
<td>12</td>
<td>43.2</td>
<td>600 (24C)</td>
<td>219 x 617</td>
<td>27.0</td>
</tr>
</tbody>
</table>

Operating ambient temperature range (℃): -20 ~ 45