

Lithium ion battery for Industrial use LIM series



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Overview

The LIM series, lithium-ion rechargeable battery for industrial applications, has been developed based on our state of the art technology and extensive experience in manufacturing small lithium-ion and large-scale industrial batteries. As a high energy and power source, the LIM series is your answer for long life in a compact size for most industrial applications.

Applications

- Hybrid crane systems
- Hybrid train
- Hybrid vehicle
- AGV(Automated Guided Vehicle)
- Power storage system for railway
- Load leveling systems
- Other industrial systems

Features and Benefits

- High charge / discharge power density
- Sealed structure
- No memory effect
- Easy periodical check
- Outstanding cycle life
- Fan-forced air cooling control with thermal sensor
- Integrated module design

Specifications

Model	Cell Qty	Charge Voltage (V)	Dimensions(mm)			Mass (Kg)	Maximum Charge Current(A)	Maximum Discharge Current(A)
			Length	Width	Height			
LIM30H-8A	8	28.8	414	231	147	19.5	600 (20C)	600 (20C)

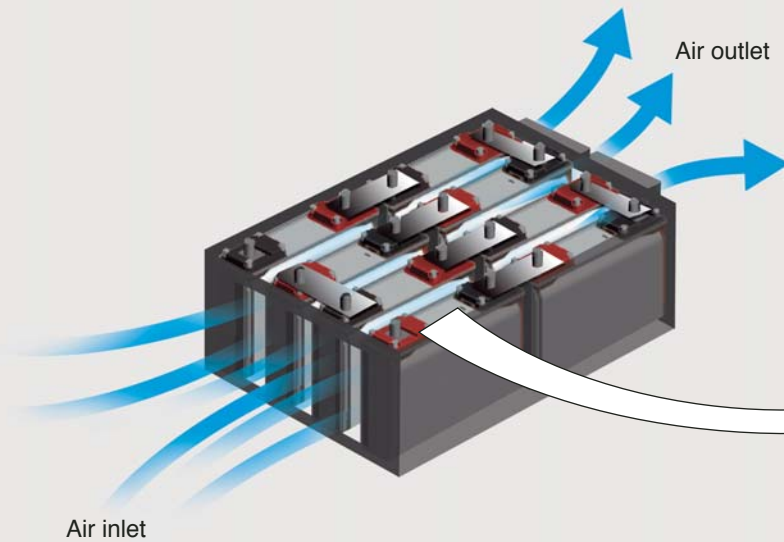
Charge temperature (°C) : 0 ~45 Discharge temperature (°C) : 0 ~45

Monitoring system

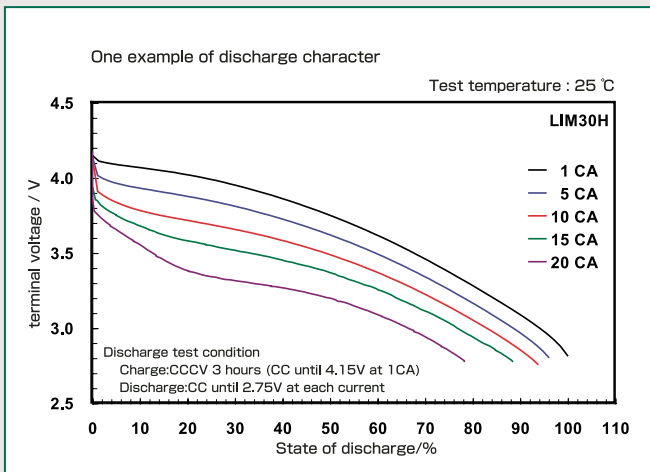
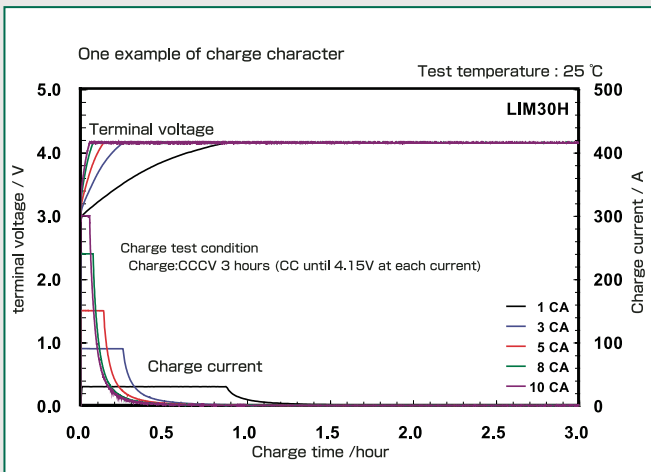
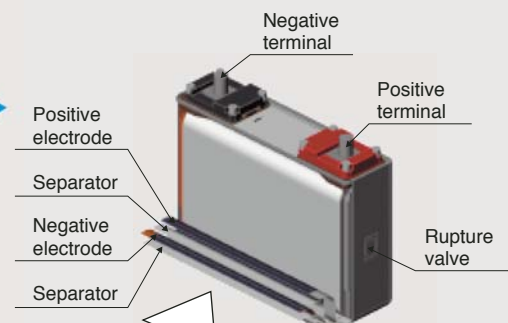
Items	Functions	Items	Functions
Voltage monitoring	Each cell voltage is monitored.	Alarm signals	Overvoltage,Undervoltage,
Temperature monitoring	Each module temperature is monitored.		High temperature,Low temperature
Status signals	Voltage rise,Voltage fall,Fan operation	Balancer	Voltage difference between each cell is controlled.



Structure of Battery Module



Structure of a single cell



Safety and protection of Lithium Ion battery

GS Yuasa LIM modules are equipped with protective functions that can detect overcharge, overdischarge, high temperature and other abnormal operating conditions. The LIM modules must be operated with a dedicated charger that can monitor the LIM battery management signals and automatically terminate charging or discharging.

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