



GS Yuasa's Lithium-ion Batteries Adopted for "Twilight Express Mizukaze"

~Improving environmental performance and supporting train concept~

GS Yuasa Corporation (Tokyo Stock Exchange: 6674; "GS Yuasa") announces that West Japan Railway Company (Tokyo Stock Exchange: 9021; "West Japan Railway") will adopt GS Yuasa's industrial use lithium-ion battery LIM25H-12 for the hybrid railcar storage battery system in the new "Twilight Express Mizukaze" train beginning operations June 17, 2017.

The concept behind "Twilight Express Mizukaze" is "a hotel rolling through the beautiful Japanese landscape. -Superior quality with a touch of nostalgia-." The train will operate in the Keihanshin (Kyoto-Osaka-Kobe) and Sanyo-Sanrin regions of western Japan, where many parts of the train lines have yet to be electrified. The train will therefore be outfitted with a hybrid railcar storage battery system powering a diesel generator and batteries. The system promises both environmental consciousness and riding comfort.

The lithium-ion battery LIM25H-12 selected for the hybrid railcar storage battery system can generate a high discharge current required for driving a railcar, thereby lessening the burden on the diesel generator. The LIM25H-12 is also able to recover regenerative energy produced when the railcar slows and effectively reuse the generated energy without waste.

In these ways, the LIM25H-12 will improve the environmental performance of the "Twilight Express Mizukaze" by raising fuel efficiency and lessening noise, while contributing to the train's development concept.

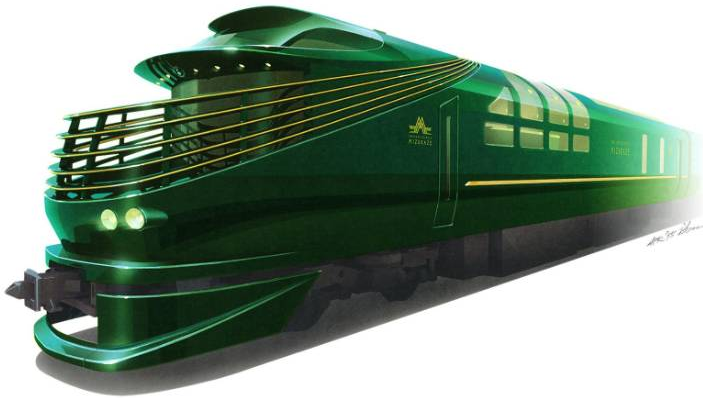
The GS Yuasa Group's lithium-ion batteries feature large capacity and high input and output, making them ideal solutions for a wide variety of applications. The batteries have been successfully adopted for automobiles, such special application as aircraft and space vehicles, power storage systems, automatic guided vehicles, and other industrial use applications. Moving forward, GS Yuasa aims to further expand their applications and contribute to reducing the environmental burden.

[Industrial use lithium-ion battery module LIM25H-12 specifications]

Rated capacity (Ah)	25
Nominal voltage (V)	43.2
Maximum charging / discharging current (A)	Charge:600 (24C) / Discharge: 600 (24C)
Operating temperature limits (°C)	Charge: -10~45 / Discharge: -20~45
Weight (kg)	27.0
External dimensions (mm)	W:219×D:617×H:128

[Images]

1. "Twilight Express Mizukaze" (Courtesy: West Japan Railway)



2. Industrial use lithium-ion battery LIM25H-12

