



**GS Yuasa Lead-acid Battery for Idle-stop Vehicles
Chosen for Daihatsu Move and Tanto Minivans**

GS Yuasa Corporation (Tokyo Stock Exchange: 6674) announced today that its lead-acid automotive battery for idle-stop vehicles was chosen by Daihatsu Motor Co., Ltd (Tokyo Stock Exchange: 7262) for its enhanced Move and Tanto minivans launched last November.

Automakers are accelerating the development of fuel-efficient vehicles to meet regulatory requirements, including more stringent CO2 emissions regulations to be phased in Europe between 2012 and 2015, and new fuel efficiency standards which will take effect in Japan from 2015. Idle-stop vehicles are touted as a way to both raise fuel efficiency and reduce CO2 emissions.

The M-42 lead-acid battery chosen boasts three advantages compared with batteries for conventional drive systems: high output, high input (charge acceptance), and high durability. These features are the product of an optimal balance between GS Yuasa's thin-plate manufacturing technology*1, carbon technology*2, and long-life technology*3.

Idle-stop technology shuts the engine down when stopped at lights or during traffic congestion, while the battery supplies power to the vehicle's electronics (car navigation system, audio system, air conditioner, etc.). When prompted by the driver, the battery provides a large current to restart the engine, and is recharged by regenerative braking.

As well as improving continuously variable transmission (CVT) and employing a new NA engine*4 for all its Move and Tanto minivans, Daihatsu has also adopted an energy management system that incorporates a new Eco-Idle system with pre-stop idle reduction function and a Eco power generation control with regenerative braking functions. Daihatsu has achieved a JC08 drive-mode fuel economy of 27.0km/L (two wheel drive) and 24.8 km/L (four wheel drive) for its Move vehicles and 24.8 km/L (two wheel drive) and 24.0 km/L (four wheel drive) for its Tanto vehicles. The adoption of GS Yuasa's lead-acid automotive batteries for these vehicles has greatly reduced fuel consumption.

GS Yuasa already manufactures and sells lead-acid batteries for idle-stop vehicles, and the selection by Daihatsu Motor for its Move and Tanto minivans is representative of the growing adoption of our batteries. GS Yuasa plans to expand its lineup of lead-acid automotive batteries for idle-stop vehicles and widen manufacturing to overseas sites to help drive global uptake of these vehicles and lower their environmental impact.

*1: Technology to improve the input-output performance of batteries by using a multitude of thin plates and reducing internal resistance.

*2: Technology to improve charge acceptance by optimizing the amount of carbon added to the negative plate.

*3: Technology to achieve longer life by using a highly durable grid and high-density active materials for the positive plate.

*4: Naturally aspirated engine

Explanation of Battery Specifications:

M-42: Specifications for lead-acid automotive battery for idle-stop systems according to Battery Association of Japan standard SBA S 0101:2006. The outer dimensions and electrode specifications conform to the Japanese Industrial Standard for B20 batteries.

M-42 lead-acid battery specifications

Outer dimensions (mm)	Total height	227
	Case height	203
	Width	129
	Length	197
Weight (kg)		approx. 11.3
Nominal voltage (V)		12
5hr capacity rate (Ah)		30

(Image)

1. Daihatsu Motor's Move



2. Daihatsu Motor's Tanto

