

GS-Yuasa Corporation has developed the extremely lightweight and small sized battery. GY-F1 to be supplied exclusively for West McLaren Mercedes team as one of the most successful team in the history of Formula One.

GS Yuasa Corporation (President: Naruo Otsubo) has developed the super high performance and ultra small valve regulated lead-acid battery, GY-F1, for Formula One Grand Prix racing car, and exclusively supplies the GY-F1 to West McLaren Mercedes from the Australian Grand Prix in Melbourne, the opening race of 2005 FIA Formula One World Championship Series on March 4th.

GY-F1 is the first products for motor sports by GS Yuasa Corporation.

August in 1991, Japan Storage Battery Co., Ltd. has started to develop the valve regulated lead-acid battery, GS-F1, for McLaren. GS-F1 had practically used by race team from the Brazil Grand Prix on March in 1992. After the Brazil Grand Prix, GS-F1 was continuing to improve. On July 8th in 1992, Japan Storage Battery Co., Ltd. formally engaged with McLaren to supply the GS-F1 exclusively. After that, the status of Japan Storage battery Co., Ltd. became as an official supplier of high quality battery. The qualities of high performance battery have met with extremely high and rigorous requirement of McLaren's high standard.

GY-F1 is the evolved type of GS-F1. GY-F1 is much lighter and smaller than GS-F1, and McLaren's new challenger MP4-20 will carry two GY-F1 in order to contribute a better weight balance. The weight of a GY-F1 is only 360g, a set weight of them is 720g. That is about 27% lighter than 980g of GS-F1. The result of battery weight and size reduction achievement would allow McLaren for possible further chassis design capacities.

GY-F1 development team has spent a year in 2004 achieved various intensive tests to satisfied West McLaren Mercedes demands. GS-Yuasa group will influence the GY-F1 technology to develop the future products in the global market.

For further information, please visit West McLaren Mercedes url <http://www.mclaren.com>

Battery specification: compared with GS-F1

		GS-F1	GY-F1
Dimensions (mm)	Length	178	96
	Width	34	25
	Height	65	61.5
Weights (g)		980	360(*)

(*) Two GY-F1, the sum of the battery weights is 720g

Special features

1. Ultra Light Weight, Extremely Small Size, and Position Free

GY-F1 could be installed flexible in any chassis design demand.

Also weight and size reduction would allow McLaren for possible further chassis design capacities.

On MP4-20, two GY-F1s were mounted on both sides the underneath of driver's seat.

2. Superior anti-vibration and heat-resistance

GY-F1 provides consistent performance under severe circumstance such as heavy impact by the touching the track surface and constant small vibration as well as in the heating environment.

(Photograph)

Upper : GY-F1, the valve regulated lead acid exclusive battery for West McLaren Mercedes

Bottom : West McLaren Mercedes Formula One racecar and GY-F1

