



August 8th, 2012

GS Yuasa Corporation

**GS Yuasa Launches Lithium-ion Power Storage System  
Enabling Peak-hour Power Cuts and Disaster Response**  
~ Meets criteria for large-size customized power storage system subsidies ~

GS Yuasa Corporation (Tokyo Stock Exchange: 6674) announced today that it has developed and begun sales of a power storage system which utilizes renewable energy by combining a photovoltaic power generation system with large-sized lithium-ion storage batteries. The new system is an ideal solution for peak-hour power reduction measures at factories and offices, and can be used as a disaster-response system to continuously supply power during emergencies, among other applications.

The system's core components are photovoltaic power generation panels, a power conditioner, and lithium-ion batteries. The peak-hour power reduction system enables customers to draw power from photovoltaic power generation panels as well as battery power stored during off-peak hours to minimize power consumption from the power grid at peak times during the day. As a disaster-response system, customers are able to utilize the power generated by the photovoltaic power generation panels and storage battery power to maintain operation of information communication systems and other critical equipment in the event of an extended power outage. The system can be tailored to the customer's needs, with the power conditioner configured with an output of between 10kW and 50kW, at 10kW increments, and the storage battery supplying 16kWh of power per unit. GS Yuasa is targeting annual sales of 400 systems, or ¥5 billion, primarily to factories, offices and hospitals with 100 – 300kW in contract demand.

On July 2, 2012, GS Yuasa became the first company in Japan to be certified as a manufacturer of large-size customized power storage systems under a Ministry of Economy, Trade and Industry subsidy program for stationary lithium-ion power supply systems administered by the Sustainable open Innovation Initiative (SII). System purchasers are eligible to receive a subsidy from the ministry for as much as one-third the system cost (equipment and installation costs).

GS Yuasa has accumulated nearly 20 years of experience in the manufacture and sales of power conditioners and large-size lithium-ion batteries. The company will continue to leverage its reliability and experience to contribute to the creation of a society which can flexibly respond to changes in electric power supply conditions.

**2. Equipment Overview**

**① Power conditioner**

Output capacity	10 kW~50 kW (configured in 10 kW units)
AC output voltage	3-phase 3-wire 202V
DC voltage range	0~600V
Maximum power tracking range	200~500V
Independent operation output	Output up to the power conditioner's rated capacity
Outer dimensions (WxDxH)	600x700x1900 (10, 20kW), 1200x800x1900 (30~50kW)

## ② Lithium-ion storage batteries (16kWh)

Storage battery model	Large-size industrial lithium-ion battery LIM50E
Cell rated capacity	Capacity 47.5Ah; Nominal voltage 3.7V
Module configuration	LIM50-E-12G2-C2 12 cell module x 8 in series
Outer dimensions (WxDxH)	700x1000x1900 (includes the storage battery case)

### 3. Product Images

#### Power conditioner

【Small capacity type (10/20 kW)】



【Medium capacity type (30/50 kW)】

