



**GS Yuasa Introduces 10 kVA, 20kVA Single-phase Interconnected  
Power Storage System LINE BACK Meister**  
**-Best-suited for building smart communities, business continuation plans (BCP)  
and enhancement of disaster response functions-**

GS Yuasa Corporation (Tokyo Stock Exchange: 6674; “GS Yuasa”) announced that it launched a new single-phase interconnected power storage system LINE BACK Meister with a rated output of 10kVA and 20kVA.

Meister is a medium-sized single-phase interconnected power storage system, which can be used not only for disaster response systems and peak cutting systems, applications where high requirements conventionally existed, but also for more sophisticated self-consumption systems and energy management systems (EMS). Linking Meister to EMS enables the development of a system that facilitates community-wide energy utilization. The product aims to make contributions to achieving economic impact and to environmental measures on a local community level.

GS Yuasa will continue to respond to diverse needs such as effective utilization of renewable energy and enhancement of BCP as well as disaster response functions through sales of various power storage systems including Meister.

[Features]

**1. Achieved industry’s highest efficiency of 96.5%\*<sup>1</sup>**

The product achieved electricity conversion efficiency of 95.0% (maximum electricity conversion efficiency of 96.5%) by using full SiC-FET\*<sup>2</sup> for electricity conversion system.

**2. Standard installation of system parallel-off charge function\*<sup>3</sup>**

The product allows using the electricity generated by solar cells alone to charge lithium-ion batteries, which enables development of self-consumption systems that utilize energy to the maximum extent.

**3. Superior silent performance**

The switching frequency of the system is set above the human audible frequency, so that it can be used without being worried about the noise.

**4. Contribution to flexible equipment layout**

The product design, with its space-saving width of 600 mm (excluding the storage battery part), standard wiring to both upper and lower parts and elimination of requirement for space for maintenance and ventilation on the sides and back, enables installation in small spaces.

**5. Standard-equipped with switching circuit (MC) and timer**

The product is equipped with MC to enable power supply at a specific load at normal time.

In addition, the timing of charge and discharge of lithium-ion batteries can be set freely by using the built-in timer.

\*1 Among single-phase interconnected power storage systems (10 kVA and 20 kVA classes) for industrial use in Japan (based on a GS Yuasa study, as of December 2016)

\*2 Compound semiconductor material composed of silicon (Si) and carbon (C) and switching device with limited power loss

\*3 A function to directly charge storage batteries with electricity generated by solar cells without charging from the grid

[Overview]

1. LINE BACK Meister

Output capacity (kVA)		10 / 20
AC output voltage (V)		Single-phase 3 wire 101 / 202
DC voltage range (V)		0 - 650
Independent operation output	Output capacity (kVA)	10 / 20
	Rated voltage (V)	Single-phase 3 wire 101 / 202
External dimensions (mm) <sup>*4</sup>		W 600 × D 800 × H 1,900

\*4 Excluding the storage battery part. Height (H) does not include channel base.

2. Industrial-use lithium-ion battery LIM50EN series

Users can select storage battery capacity that suits their need.

Number of cells per series		60 <sup>*5</sup>	72	96
Storage battery capacity (kWh)	Parallel 1 row	10.5	12.6	16.8
	Parallel 2 rows	-	25.3	33.7
	Parallel 3 rows	-	37.9	50.6

\*5 60-cell format is available only in 1 row.

[Images]

1. LINE BACK Meister (storage battery capacity of 16.8kWh)



Power conditioner cabinet (W 600mm)      Storage battery cabinet (W 400mm)

2. Industrial-use lithium-ion battery LIM50EN series (12 cell module)

