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ELIY Power Develops the *POWER YIILE 3* Indoor Electricity Storage System

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with the overall efficiency higher by 40%

ELIY Power Co., Ltd. (Head Office: Shinagawa-ku, Tokyo, Japan; President: Hiroichi Yoshida) today announced that it has recently developed the POWER YIILE 3 indoor portable electricity storage system and it will go on sale this coming summer. It will be helpful not only to offices and local governments for business continuity planning (BCP) measures but also to household in peak shifting and as an emergency power supply.

Established in 2006, ELIY Power released the first edition in the POWER YILLE series of portable electricity storage systems in 2010. Two years later, it released the POWER YILLE PLUS to lead the electricity storage market.

As a pioneer in portable electricity storage systems incorporating large lithium-ion batteries, ELIY Power developed the new model as a 10th anniversary model. It is equipped with the latest functions better answering users' needs and with a cloud management function for flexible adaptation to the future IoT age on the basis of technologies and product knowledge it had cultivated.

In addition, ELIY Power persistently sought usability. The new model is equipped with casters with stoppers so that it could be moved. Its size was designed to ensure that the product will neatly be put under an end of the office desk. Its look is matched with offices and homes. And the interface is so plain that its functions are limited.

◆ Product Appearance



◆ Major Specifications

Product Name	POWER YIILE 3		
Model	PPS-30	Place of installation	Indoors
Storage Battery Capacity	2.5 kWh	Rated Output	1.5kVA / 1.4kW
Dimensions	W 320 x D 585 x H 514 (mm)	Weight	Approx. 52 kg
Operating Environment	Ambient temp.: -10 deg. C to 40 deg. C	Operation	38 dB or less

◆ Main Features

1. While the size is reduced, the system attained major evolution with the overall efficiency higher by 40% after introducing a new power device (SiC).

2. Support for direct electricity recharge from solar panel

3. Equipped with a large lithium-ion battery boasting the world’s top-class safety and a long life

◆ Main Features

1. While the size is reduced, the system attained major evolution with the overall efficiency higher by 40% after introducing a new power device (SiC).

- The new model is smaller and lighter by around 20% than the conventional models*¹. Its overall efficiency is about 40% higher than that of the conventional models.
- It is comparable with the conventional models*¹ in terms of storage capacity (2.5 kWh) and it produces a higher output at 1.5 kVA.
- Adopting a next-generation power semiconductor, silicon carbide (SiC), its power conversion loss is massively lower.
- With substantial increase in system efficiency, it operates more silently.



*1 The POWER YILLE PLUS (Models PPS-11 & PPS-20, released in 2012)

2. Support for direct electricity recharge from solar panel

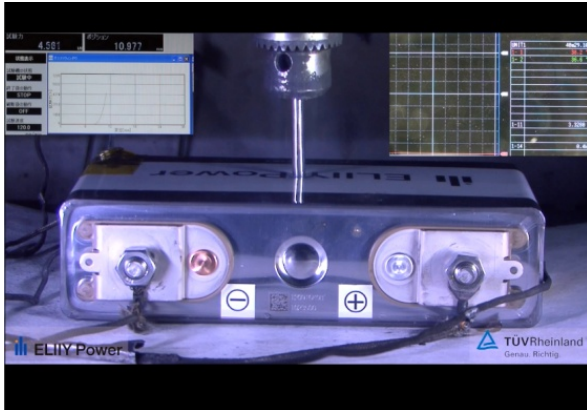
- It recharges electricity in high efficiency, given that it directly recharges direct current electricity from solar cells.

3. Equipped with a large lithium-ion battery boasting the world’s top-class safety and a long life

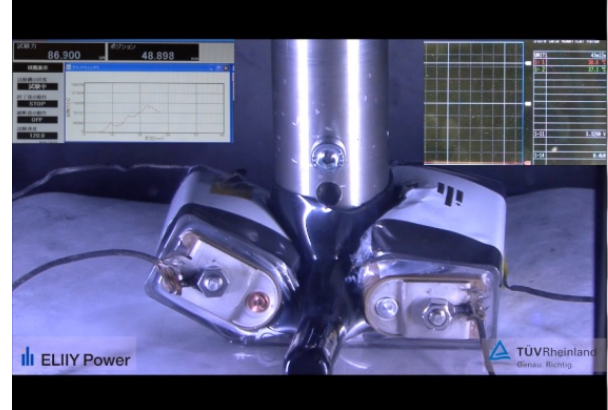
- It features a high level of safety that prevents smoke or ignition even in the nail penetration test (for internal short circuit), the crushing test and the overcharge test.

- The world's first large lithium-ion battery to acquire the TÜV-S mark*2 has been adopted.
- The battery has such a long life that its capacity retention is 80.1% or more*3 after repetitive electric charge and discharge for 10 years (during which the battery will be discharged and recharged nearly 12,000 times).

Nail Penetration Test



Crushing Test



- *2 Safety Standard Certificate issued by TÜV Rheinland Japan Ltd., affiliated with a worldwide third party testing and certifying body (Manual for Testing Lithium-Ion Cells under Severe Conditions v. 2:2011)
- *3 This value is estimated on the basis of ELIY Power's acceleration test data under the conditions with the room temperature of 23 deg .C and three cycles of full recharge and discharge per day (at the depth of discharge (DOD) of 100%).

◆ **Other Features**

- It may be operated and its energy status may be viewed on a smartphone, tablet or computer.



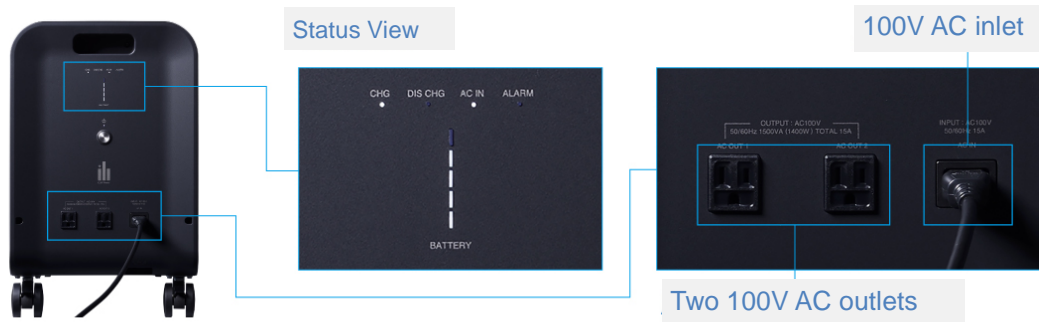
Electricity Storage Rate



Self Supply Rate

- * The screen images are for presentation purposes only.
- * Connection to the Internet is required.

- LEDs on the main unit give an easy-to-understand display of the system operation status.
- Two tripolar 100 V AC outlets with grounding



Since it was established in 2006, ELIY Power has placed top priority on safety in its activities to develop technologies and products. In the future, it will continue its endeavors to develop and spread lithium-ion battery cells and electricity storage systems in accordance with its philosophy of popularizing systems for storing and consuming energy in a bid to solve global energy issues and environmental issues.

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