

July 9, 2013

**Announcement of Water and Dust-proof Compact Energy Storage System**

Myway Plus Co. Ltd (Location: Yokohama-shi, Kanagawa-ken), prior to the launch of waterproof and dustproof compact energy storage system which can be used outdoor; will exhibit the following sample product.



\* handle and wheels available as options

**【Exhibition Schedule】**

- Bousai-EXPO (Date: 10-12<sup>th</sup> July, Venue: Tokyo Big Sight, Ex. Booth: Nagase Co. Ltd)
- TECHNO-FRONTIER 2013 (Date: 17-19<sup>th</sup> July, Venue: Tokyo Big Sight, Ex. Booth: Alps Electric Co. Ltd)

**【System Features】**

Myway Plus HeDCT (High Efficiency Digital Control Technology) has achieved a smaller and lighter power converter. Besides functioning as home appliances in daily life, it also serves as a 1500W (Moment Maximum of 3000W) energy storage system in a large operational activation power construction site.

The world's first<sup>※</sup> small and high-efficiency power converter mounted with SiC-MOSFET is able to suppress the heat loss and is enclosed in fan-less sealed chassis. It is also a waterproof and dust resistant (IP65 equivalent) compact energy storage system.

(<sup>※</sup> Myway Plus research in July 2013)

The positive electrode material for lithium-ion battery will not cause a thermal runaway despite heating up to 400°C. It is made of safe, olivine-type structure iron phosphate lithium-ion battery. In addition, the system maintains a substantial 80% of the initial capacity even after repeated charging and discharging 8000 times at 100% discharge depth (characteristic of storage battery). Lastly, the self-discharge is lesser than that of lead-acid battery, users can use it anytime during emergency.

Capacity can be extended up to 4.5kWh (up to 3 consolidated units) in the compact body.

## Press Release

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### 【Application Scenes】

The system is available in a room free of noise, vibration and exhaust gas. In addition, the system also works in outdoor cold weather (up to -10°C), construction site and rainy condition.

### 【Development of Sample System】

The sample product of present system is designed and conceptualized by Myway Plus Co. Ltd, developed by IHI and Alps Electric Co. Ltd through technology cooperation, and lastly assembled by Alps Electric Co. Ltd.

### 【Associated Alliance with Commercialized System (Planned)】

In system commercialization, Myway Plus Co. Ltd is responsible for system and circuit design of the small and highly efficient power conversion circuit module, and thereafter, mass producing system. IHI will supply the olivine-type structure iron phosphate lithium-ion battery for use in system.

In addition, through advanced technology collaboration, the next generation module will be equipped with Alps Electric Co. Ltd communication module. Intelligent storage system management and traceability in remote mode will be further developed.

### 【Launch (Scheduled)】

IHI and Nagase Co. Ltd scheduled to implement as OEM from November 2013.

### 【Product Specifications (Planned)】

Item	Specifications	Remarks
Waterproof/Dustproof	IP65	
Battery Capacity	1,500Wh	
AC Rated Power Output	1,500W	
AC Maximum Power Output	3,000W	100mS
Charging Time	5 hours	※Rapid Charge Mode 1 hour
Operating Temperature	-10°C ~ 40°C	
Size	W292*H400*D660	Handle and wheel exclusion
Weight	59kg	Handle and wheel exclusion
Options	Solar cells, handle and wheel connection	

### 【Future Business Development (Planned)】

Myway Plus Co. Ltd conducted business planning and product development of this waterproof and dustproof compact energy storage system. In future, Myway Plus Co. Ltd will continue to expand the business of manufacturing small and highly efficient power conversion circuit modules.

### 【Enquiry Regarding Product】

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