

# ECO Energy Hakuyo Water Battery

Blue Water Power



三嶋電子株式会社  
MISHIMA DENSHI CO., LTD.

《Patent Obtained, The Utility Model Obtained》

## Environment Friendly

**Generating Power with water absorbing for 5~10 seconds.**

**product application of HaKuYo Water Battery**

According to types and using conditions,

The batteries can continuously light on for about 20 days(480hours)~62days (1,500hours)



### Disaster Preventioin ▪ Disaster Reductionin ▪ Security Set

Warranty Period: 1 Year

Storage Period: 10 Years (But denpending on storage conditions)

Cautions: Keeping in High humidity and water is prohibited.

#### Advertisement through TV, Radio and Newspaper

Asahi TV 2011, NHK Nagoya TV 2012, TBS TV 2012, Fuji TV 2012, TBS TV 2013,

Sen Tai TV March 2014, TBS Morning Channel, Kansai Radio

NHK TV and Japan Machikato Information Room September 1st to 2nd

Industry Newspaper Company Daily February 6 and 27, May 12, Japanese Economy MJ June 8,

Asakumo Newspaper Company( in The Ministry of National Defense) July 24,

Tokyo Commercial Industry Conference Newspaper August 20

#### Samples of Users' Feedback:

- 1 . Mr.Ichikura: Illumination(LED100pcs continuously)  
5 months(3600hours)continuously lighting on by battery E3P
- 2 . Mr.Niiyama: Water firefly continuously lighting on for 45 days(1080hours)
- 3 . Mr.Saito: Flashlight(Mid) continuously lighting on for 22days (528hours)



# Hakuyo Water Battery PART-1

## 1. Features

- 1)Power to be generated with water injection (For emergency.
- 2)Any water can be used, but impurity may shorten the life of battery.
- 3)Without water injection, long storage is impossible. (10 Years. but depending on storage conditions)
- 4)Once the battery has been used with water injection. It can be used again even after one year, but it takes a little longer time to light
- 5)Power can last long time according to the battery size and water injection management. For 400 hours (battery size: 4cm×4cm) ~1,500hours (battery size: 5cm×8cm)
- 6)Power can be generated under the temperature -20 °C.
- 7)No restriction for generating site.
- 8)The battery can be scrapped separately. Please be attention to the handling regulation of local government.

## 2. Weakness

- 1)The volume of initial water injection and the 2nd time are different. From the 2nd time is only half of the initial. Please be cautious.

## 3. Comparison with Dry Battery

- 1)To environment  
Hakuyo Water Battery: scrapped separately is possible.  
Dry Battery: Industry Waste
- 2>About Longivity  
Hakuyo Water Battery: Continuously generating power for 400hours~1,500hours (depending on battery  
Dry Battery: Only can continuously generating power for about 72 hours
- 3>About Cost  
Hakuyo Water Battery: less than 1/2 of dry battery from comparison power generating and storage time.  
Dry Battery: Only can continuously generating power for about 72 hours.  
It can not generate power with 1 year storage.

## 4. Hakuyo Water Battery, a product can make the dream of expansion of business come true.

**Manufacturer and Distributor: Mishima Denshi Co., Ltd.**

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<http://www.mishima-jp.com>

**Homepage about Water Battery: <http://www.mishima-denshi.jp>**

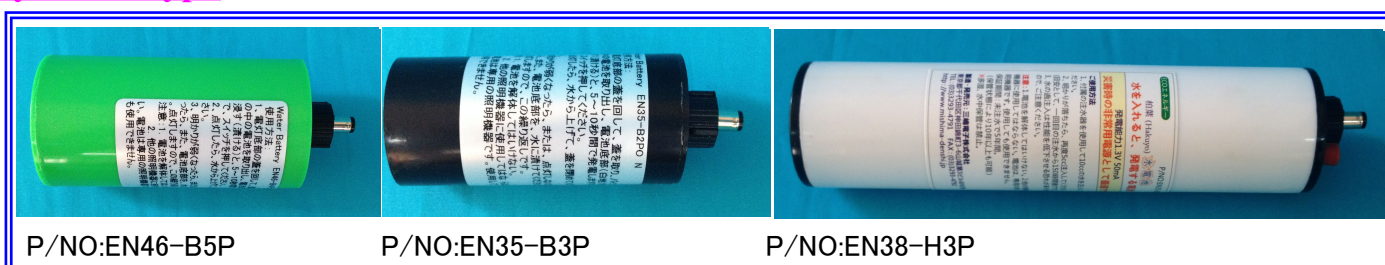
Please be noted that the products may be different from the pictures in our catalogue for our constant modificatic  
For environment-friendly goods, the plastic case of battery will be gradually changed to aluminum case.

# 【Battery】

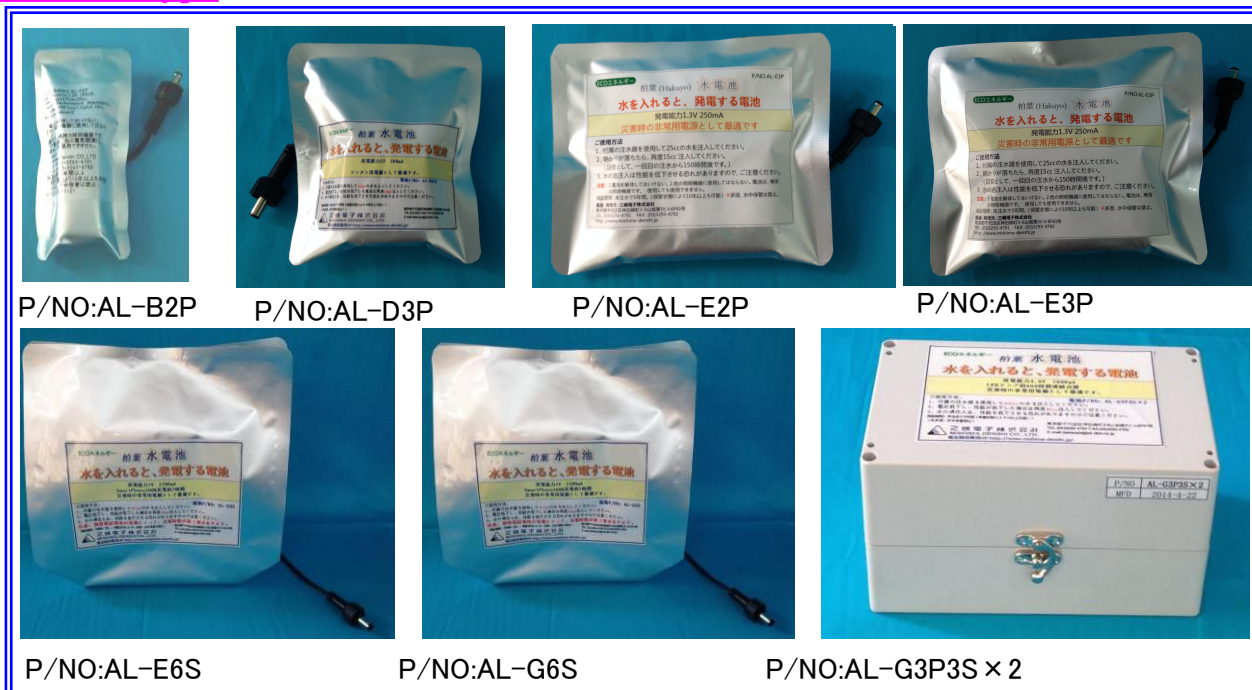
## Plastic Case Type



## Cylinder Type



## AL Pack Type



## 【Specificaion】

Product No.	Size mm			Weight g
	length	Width	Height	
T1-B8PO	110	61	31	146
T2-C6PO	80	51	50	144
T3-C8PO	160	51	50	216
T4-A8PO	110	41	35	93
T5-C3PO	45	45	35	52
EN46-B4PO	φ 42	81		58
EN35-B2PO	φ 33	81		39
EN38-H3PO	φ 38	157		136

Product No.	Size mm			Weight g
	length	Width	Height	
AL-B2PO	60	120	24	22
AL-D3PO	100	110	28	66
AL-E2PO	150	120	25	93
AL-E3PO	160	130	41	126
AL-E6S0	200	160	71	281
AL-G6S0	260	200	74	700
AL-G3P3S0	240	120	160	1390



# Disaster Prevention ▪ Disaster Reduction ▪ Security Set Final Fortress (For Emergency)

## (Composition of the Utility)

- |                                      |                                   |
|--------------------------------------|-----------------------------------|
| 1)CH-18LED Illuminator for Emergency | 2)Portable Charger for Cell Phone |
| 3)Portable Flashlight                | 4)Hand-Back Light                 |

## CH-18LED Illuminator Set for Emergency

**Product NO.: CH-18LED+AL-E3PO×4**

Remark: White LED for the illuminator is licensed product. Battery is automatic water absorbing type and exchangeable.

## (Instructions for use)

(1) The packed the batteries in box. Plastic bottles provided are used for water injection at once. It takes about 10~15 seconds for the batteries to absorb water. Please discard the water finally remained in the box.

After discarding the remained water, please turn on the light. If some water still remained in the box, it may cause short circuit. (The lighting may last for 100 hours)

(2)As the light being off, please use the provided plastic bottle to inject half bottle water.

The above procedure may repeat. The lighting can be continuous for about 20 days. (about 480 hours)

**(Please close the cover of battery box to prevent evaporation of water)**

## Portable Flashlight

**Product No.: EN4609SS—1W+EN46—A4PO**

(Battery is automatic water absorbing type and exchangeable)

## (Instructions for use)

(1)Please take it out of water with Initial water absorbing for 5~10 seconds, power will be generated.

Please push the switch, the light will be on. (for about 100 hours)

(2)With the light being off, please absorb water for about 5~10 second again. Power will be generated again, then switch on and it will be light up again.

(3)he same procedure may repeat and take some time to final lighting up.

The light may be on continuously for about 10 days. (for about 240 hours)



Product Name	P/NO	Battery	Size mm	Weight g	LED Spec.	Initial LUX			Power W
						1.5m	2m	3m	
CH-18LED Illuminator for Emergency	CH-18LED+AL-E3PO×4	AL-E3PO×4	260x260x360	3802	φ8 (8*8.7mm)	111	64	30	2
Portable Flashlight	EN4609SS—1W+EN46—A4PO	EN46—A4PO	φ46x95	86	φ8 (8*8.7mm)	20	13	5	0.17

# Disaster Prevention ▪ Disaster Reduction ▪ Security Set Final Fortress (For Emergency)

## Portable Charger for Cell Phone

**Product NO.: AL-G6SO**

(Battery is automatic water absorbing type and exchangeable)

Plastic bottles provided are used for water injection at once. It takes about 10~15 seconds for the batteries to absorb water. Please discard the water finally remained in the box. please connect with the battery After discarding the remained water. If some water still remained in the box, it may cause short circuit.

### Charging experiment

Experimental Utility: SONY Xperia S39H (Battery Capacity: 2350mAh)

1st time charging 0%~100% 7 hours

2nd time charging 0%~100% 10 hours

3rd time charging 0%~20% 5 hours

Experimental Utility: SONY L39H (Battery Capacity: 3000mAh)

1st time charging 0%~100% 12.5 hours

2nd time charging 0%~100% 14 hours

3rd time charging 0%~4% 2 hours

## Hand Back Light

**Product NO.: EN3504E-1W+AL-F3PO**

(Battery is automatic water absorbing type and exchangeable)

### (Instructions for use)

(1) Please take it out of water with Initial water absorbing for 10 seconds, power will be generated.

Please push the switch, the light will be on. (for about 100 hours)

(2) With the light being off, please absorb water for about 5~10 seconds again. Power will be generated again, then switch on and it will be light up again.

(3) The same procedure may repeat and take some time to final lighting up.

The light may be on continuously for about 20 days. (for about 480 hours)



Product Name	P/NO	Battery	Size mm	Weight g	LED Spec.	Initial LUX			Power W
						1.5m	2m	3m	
Portable Charger for Cell Phone	AL-G6SO	AL-G6SO	180x125x120	1235					
Hand-Back Light	EN3504E-1W+AL-F3PO	AL-F3PO	φ35x40	146	φ8 (8mm*8.7mm)	45	33	14	0.5

## Indoor Illuminator

(The white LED is licensed product)

### Product NO.: CH-8LED×4+T3-D3P4SO×4

(Battery is automatic water absorbing type and exchangeable)

#### Instruction for use

(1) Please take it out of water with Initial water absorbing for 3 seconds, power will be generated.

Please push the switch, the light will be on. (for about 100 hours)

(2) With the light being off, please absorb water for about 3 second again. Power will be generated again, then switch on and it will be light up again.

The same procedure may repeat and take some time to final lighting up.

The light may be on continuously for about 20 days. (for about 480 hours)



Product Name	P/NO	Battery	Size mm	Weight g	LED Spec.	Initial LUX			Power W
						1.5m	2m	3m	
Indoor Illuminator	CH-8LED×4 +T3-D3P4SO ×4	T3-D3P4SO ×4	360x210x160	2530	φ8 (8*8.7mm)	510	178	55	4w
Battery	T3-D3P4SO ×4	D3P4S	170x60x50	280					

## LED4PCS Indoor Illuminator (for Emergency)

(The white LED is licensed product)

### Product No.:CH-4+AL-E3PO×2

(Battery is water injection type and exchangeable)

#### Instructions for use

(1)Please take it out of water with Initial water absorbing for 5~10 seconds, power will be generated.

Please push the switch, the light will be on. (for about 100 hours)

(2)With the light being off, please absorb water for about 5~10 second again. Power will be generated again, then switch on and it will be light up again.

(3)The same procedure may repeat and take some time to final lighting up.

The light may be on continuously for about 20 days. (for about 480 hours)

(4) If the box are used for serving water, all the water in the box can not be used, please discard the water remained. Please use the same procedure as the above.



Product Name	P/NO	Battery	Size mm	Weight g	LED Spec.	Initial LUX 1.5m	Power W
LED4PCS Indoor Illuminator	CH-4+AL-E3POx2	AL-E3POx2	160x120x170	1050	φ8 (8*8.7mm)	50	1.2
Battery	AL-E3PO	E3P	155x110x30	119			

## Flashlight (Big)

(The white LED is licensed product)

### Product No.: EN4617SS-1W+EN46-B4PO

(Battery is automatic water absorbing type and exchangeable)

#### Instructions for use

(1) Please take it out of water with Initial water absorbing for 5~10 seconds, power will be generated.

Please push the switch, the light will be on. (for about 100 hours)

(2) With the light being off, please absorb water for about 5~10 seconds again. Power will be generated again then switch on and it will be light up again.

(3) The same procedure may repeat and take some time to final lighting up.

The light may be on continuously for about 20 days. (for about 480 hours)

#### **Cautions:**

Strict water injection may prolong the lighting.

Over dipped in water may shorten the lighting. Water absorption should be within 10 seconds.



Product Name	P/NO	Battery	Size mm	Weight g	LED Spec.	LUX 1.5m	Power W
Flashlight (Big)	EN4617SS-1W+EN46-B4PO	EN46-B4PO	φ46x170	145	φ8 (8*8.7mm)	15	0.8
Battery	EN46-B4PO	B4P	Φ42*100	56			



# Life Light

For Kids Product No.:R8+AL-H2PON

For Adult Product No.: R8+AL-H2PON (L)

(The difference between product for children and adult is only the length of rope. Battery is non-exchangable.)

## Instructions for use

1. Life light is separately worn on wrist, different from life jacket, therefore, the approval of the Ministry of Land and transportation is unnecessary. please wear the lift light on wrist. After being dipped into water for several seconds, the life light starts flashing and last for about 100 hours. The lifelight can flash in water for 5 days and on the surface of water for 14 days. On land, lifelight can flash for almost 30days depending on water injection. But every 7days, water injection is nec

## Cautions:

Please keep the battery away from places of high humidity, it may cause power discreasing.

## Guarding our Life!



Life Light



Wearing Sample No.1



Wearing Sample No.2

After being dipped into water for several seconds,  
the life light starts flashing

Product Name	P/NO	Battery	Size mm	Weight g	LED Spec.	Otpical Range	Power W
For Kid	R8+AL-H2PON	AL-H2PON	80*130	90	CHIPLED	over500M	0.004
For Adult	R8+AL-H2PON (L)	AL-H2PON	80*130	90	CHIPLED	over500M	0.004

# OS System

Everybody with nursing job, do you feel troublesome for changing diaper ?

## Standard Complete Set Product No.: OS-ST

### Receiver P/NO: OS-1 / Transmitter P/NO: OS-02 / Urine Sensor Pad(Water Battery) P/NO: OS-03

(Batter is automatic water absorbing type. Battery should be changed every time for sake of sanitary)

## Instructions for Use

(1) Please insert the transmitter into the battery sheet and put it between urine taking pad and diaper.

OS system has 5 types.

ReceiverAtype + TransmitterA1 ~ 5set. For members management

ReceiverBtype + TransmitterB1 ~ 5set. For members management

ReceiverCtype + TransmitterC1 ~ 5set. For members management

ReceiverDtype + TransmitterD1 ~ 5set. For members management

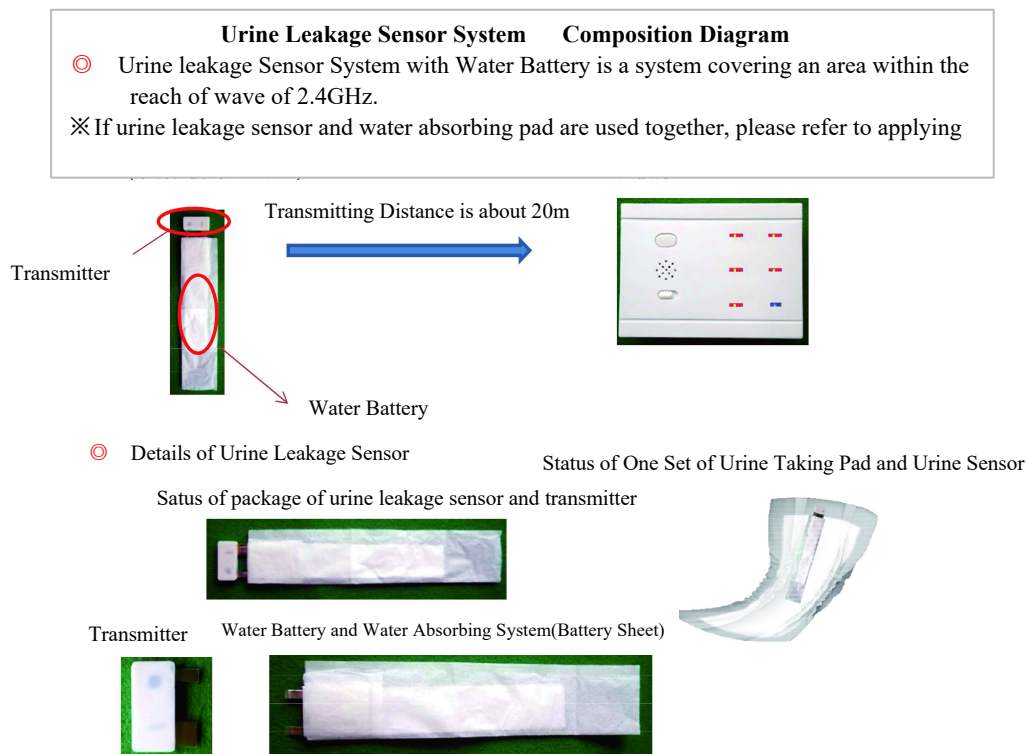
ReceiverEtype + TransmitterE1 ~ 5set. For members management

If all the receivers are used, 25 members can be managed.

For other types by special order, maximum 120 members can be managed.

## **Cautions:**

The Temperature of battery may increase with power generation, but there's no effect to the body.



Product Name	P/NO	Battery	Size mm	Weight g	LED Spec.	Initial Lux 1.5m	Power W
OS System	OS-ST	OS-3	143x83x39				
Battery	OS-3		35x20				