

Emergency Power Supply Unit with Emergency Power Function

HP5300

Protected by electricity
made from hydrogen.

Hydrogen protects your life.

ABILITYunique ECOA Concept Easy and Convenience Achieve Concept

Making hydrogen easier and more convenient—
A concept for bringing energy closer to everyday life

Atmospheric pressure hydrogen cartridges:

Hydrogen used at hydrogen stations and similar facilities is high-pressure hydrogen (1MPa or higher), making it classified as a hazardous material under the High Pressure Gas Safety Act. In contrast, atmospheric pressure hydrogen (less than 1MPa) is not a hazardous material, so no special qualifications are required! Anyone can handle atmospheric pressure hydrogen cartridges anytime, anywhere, just like dry cell batteries.

This system is a hybrid of

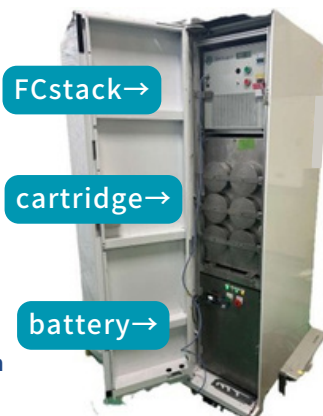
"Fuel Cell & Hydrogen Cartridge"

+

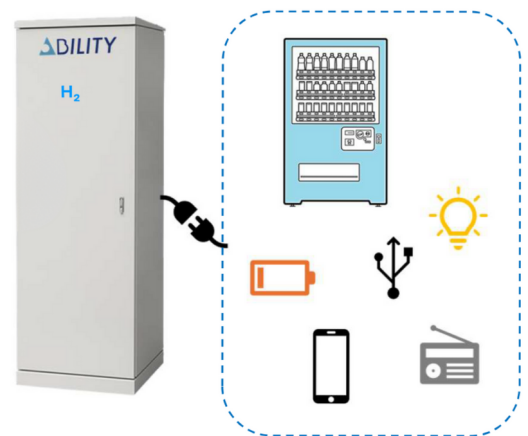
"Battery"

During normal operation, it supplies electricity to various devices from the grid power source via the battery. During emergencies (power outages), it supplies electricity from the battery. When the remaining charge becomes low, it generates electricity using hydrogen to recharge the battery.

Supplies electricity from the battery to various devices.
Continues supplying electricity as long as hydrogen is present.



Standard Pressure Hydrogen Cartridge (Large Size)
*Photo shows prototype



**Selling Price ¥4,000,000
(excluding tax)**

※Eligible for subsidies from the Ministry of the Environment.
※Connecting devices are not included.

ABILITY



HPS300

-Main Specifications-

Dimensions: 600mm × 750mm × 1830mm

Cartridges: L Size × 6

Batteries: 12.8 × 100Ah × 6

Fuel Cell Output: Max 300W

Rated Output: 4.8kWh

Rated Voltage: AC100V

Power Supply Time: Approx. 24 to 30 hours※1※2

Ambient Temperature: 5°C to 40°C

※1 The above specifications apply to intermittent operation with a 300W load.

※2 Power supply time may vary slightly depending on ambient temperature.



Standard Pressure Hydrogen Cartridge
(Large Size)

*Photo shows prototype

-Standard Pressure Hydrogen Cartridge (Large Size) Specifications-

Dimensions: Φ89mm × L450mm

Weight: 9kg

Body Material: Aluminum

Filling Material: Hydrogen Storage Alloy

Hydrogen Capacity: 90g

Internal Pressure: Less than 1MPa

Filling Cycles: >2000 times



Digital Signage Installation Image

-Options-

●Digital Signage

Supports 4K resolution, video streaming, and various other services.

Please inquire if you have any requests.

ABILITY Inc.

[Location]

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