

# LakePower 5/10/12

## Pure Hydrogen Fuel Cell System



**high stability**



**Low noise**



**Pollution-free**



**Hot water production**



**Low noise**



**Low maintenance costs**



**Small footprint**



**Remote control**



**High performance**

Rated power 10kW



**Independently developed**

Customized design and development based on customer needs



**Accurate and controllable**

High power density and small size

## Features

- **High reliability and durability**

Adopting a vehicle grade fuel cell system with high reliability and a design life of up to 20000 hours

- **Simplified integration**

Can be freely paired with different specifications of hydrogen storage, lithium batteries, and PCS to meet the needs of different scenarios

- **On/off grid compatible**

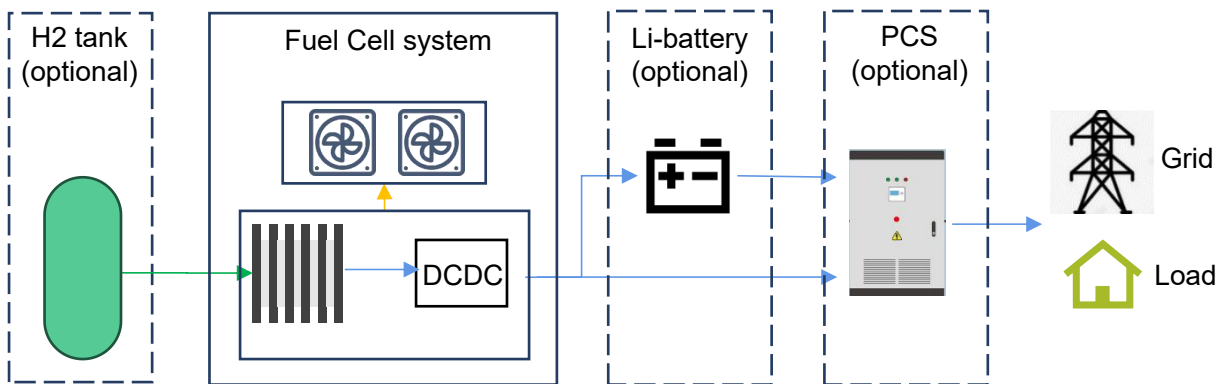
Equipped with lithium batteries and energy storage converters, it can support both grid connected and off grid use

- **Easy of capacity expansion**

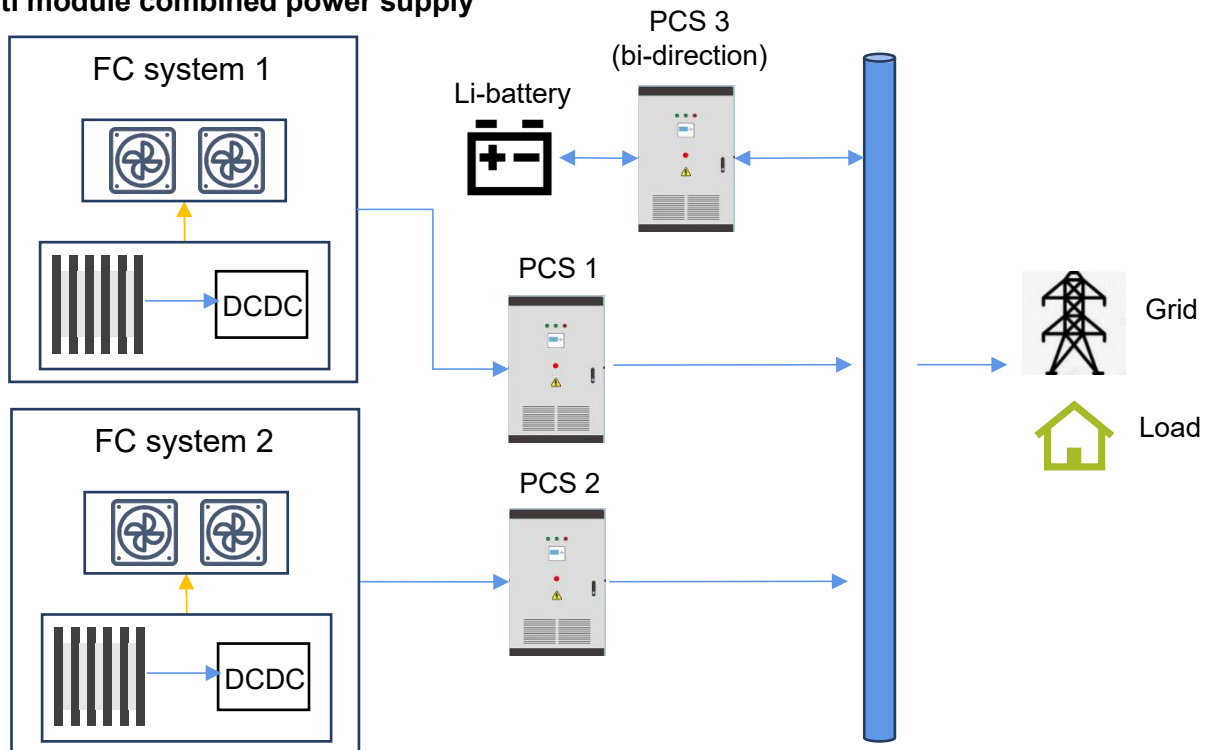
Multiple modules can be connected in parallel to expand system capacity

## Application schematics

- **Single module AC power supply**



- **Multi module combined power supply**



Project	Parameter			Illustrate
	LakePower 5	LakePower 10	LakePower 12	
Net power of the system	5 kW	10kW	12kW	
Rated DC voltage	48V/72V/80V/110V			
standby power	2kW			
Ambient Temperature	-15℃ - +45℃			Normal operation and startup
Working altitude	<1500 m	<1500 m	<1000 m	
External dimensions	1500*800*900mm			Box size
weight	About 300kg			Depending on specific configurations such as lithium batteries
fuel	Gaseous hydrogen gas			
Fuel purity	> 99.99%, SAEJ2719			
Fuel pressure	0.8 – 1.6 MPa			customizable
Rated point efficiency	>43%			Excluding inverter losses
oxidant	air			
Fuel supply flow rate for Korean fuel	70 SLPM@5kW	125 SLPM@12kW	150 SLPM@12kW	
cooler	Fuel cell specific coolant			
Heat dissipation power	<7kW	<12kW	<15kW	
Coolant outlet temperature	70 °C @ rated power			
communication interface	CAN; Supports RS232/485 conversion; Optional HMI			
Inverter function (optional)	220VAC	220/380VAC	220/380VAC	
Lithium ion battery (optional)	Integrated into the box, specifications can be customized according to needs			
plate type heat exchanger	Optional			