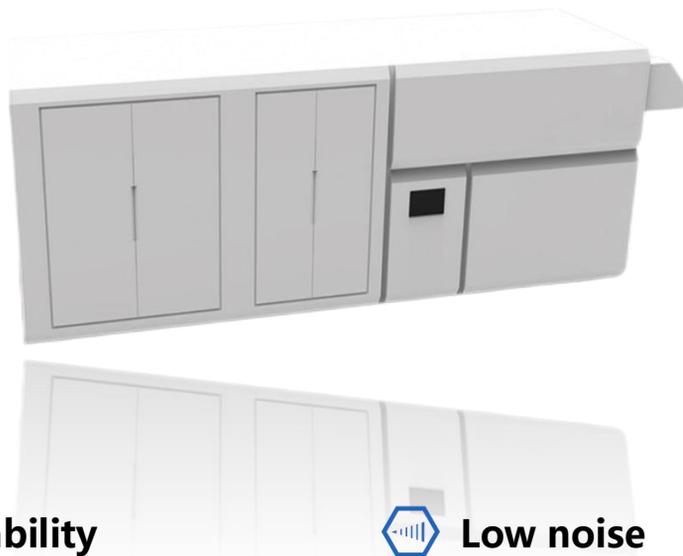


LakePower 100

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 100kW



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**

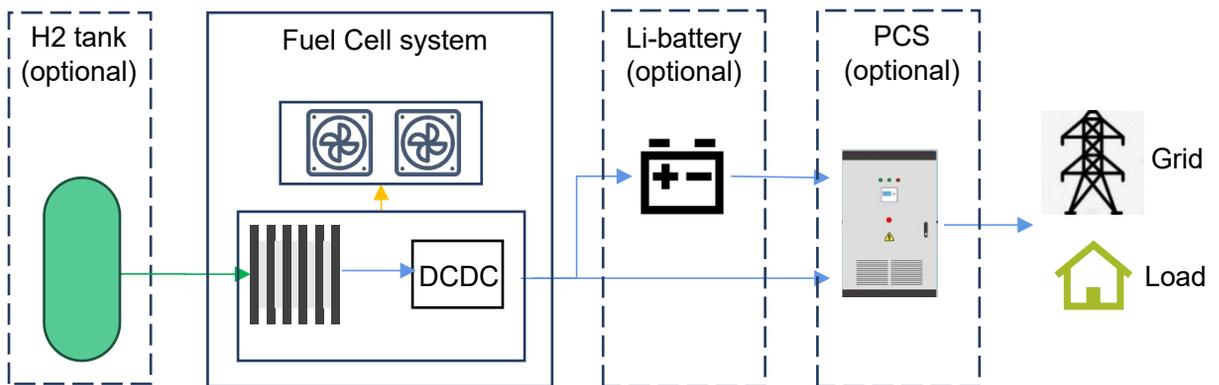
Equipped with lithium batteries and energy storage converters, it can support both grid connected and off grid use

- **Easy of capacity expansion**

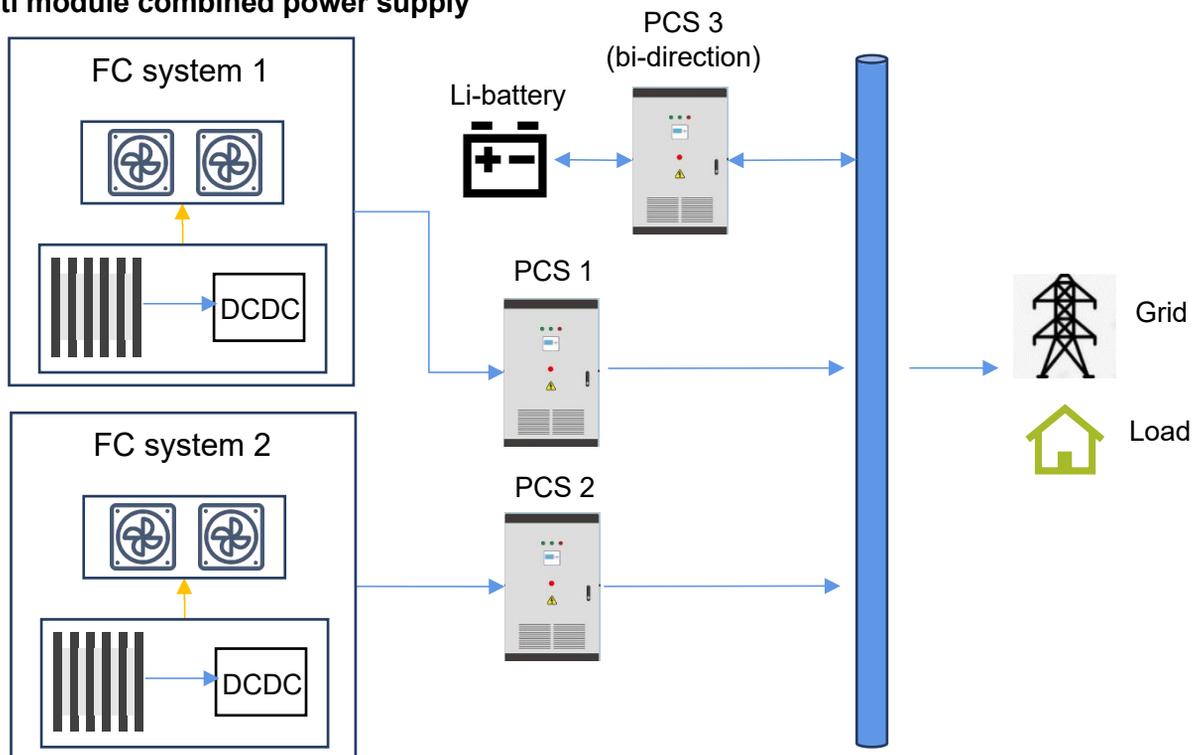
Multiple modules can be connected in parallel to expand system capacity

Application schematics

- **Single module AC power supply**



- **Multi module combined power supply**



Project	Parameter	Illustrate
Net system power	100 kW	
Operating system voltage	450-700 VDC	
Operating system current	20-270 A	
Idle power	20 kW	
Operating temperature	-35°C - +45°C	
Minimum start-up temperature	-35°C	
Short term storage temperature	-45°C - +80°C	
Operating altitude	<1500 m	Usually at low altitudes, power decreases at high altitudes
Dimensions	3800*2400*2400mm	Customizable container
Weight, only FC module	~250kg	
Fuel type	Gaseous hydrogen	
Fuel purity	> 99.99%, SAEJ2719	
Fuel supply pressure	1.3 – 1.6 MPa	
Fuel efficiency	45% @ 100kW	
Oxidant	Air	
Fuel mass flow	2.11 g/s	
Air mass flow	137.7 g/s	
Coolant	Ethylene glycol 0%-50% vol. DI water	
Heat dissipation power	120kW	
Radiator coolant outlet temp.	70°C	
Control interface	CANbus	
PCS inverter	Optional	
AC output voltage	380/400 VAC, 50Hz, 3W+N	