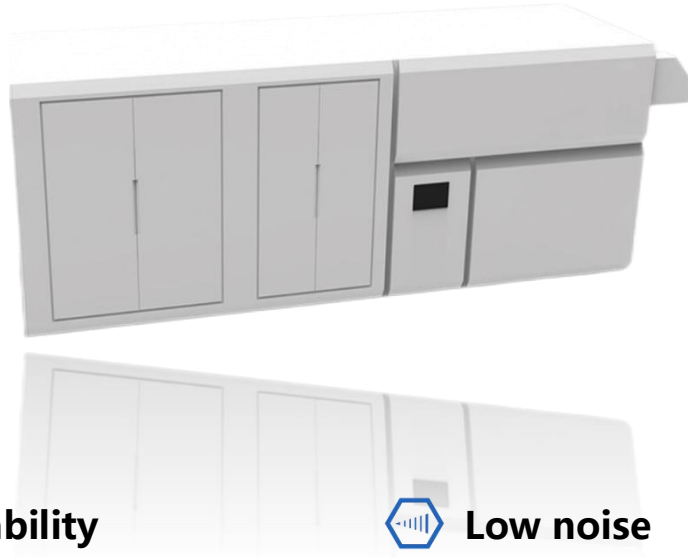


LakePower 100

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**

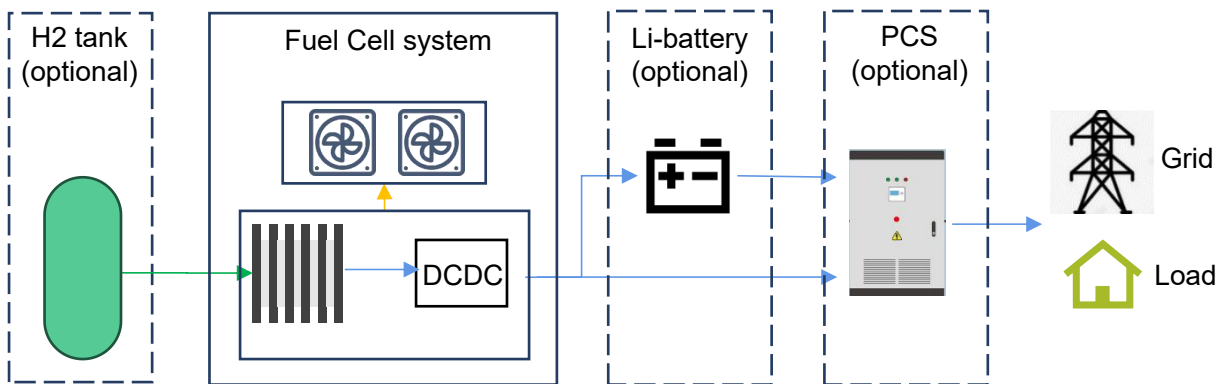
Equipped with lithium batteries and energy storage converters, it can support both grid connected and off grid use

- **Easy of capacity expansion**

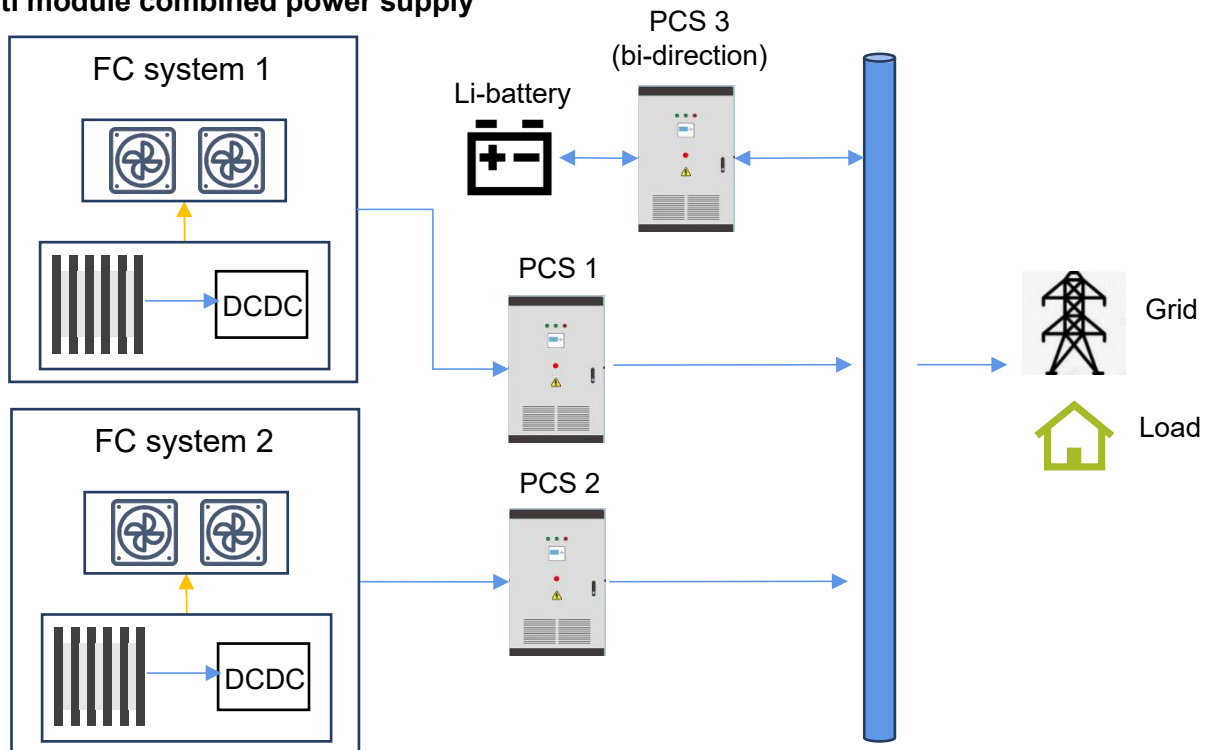
Multiple modules can be connected in parallel to expand system capacity

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	