

# LakePower 20

## 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 20kW



**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**

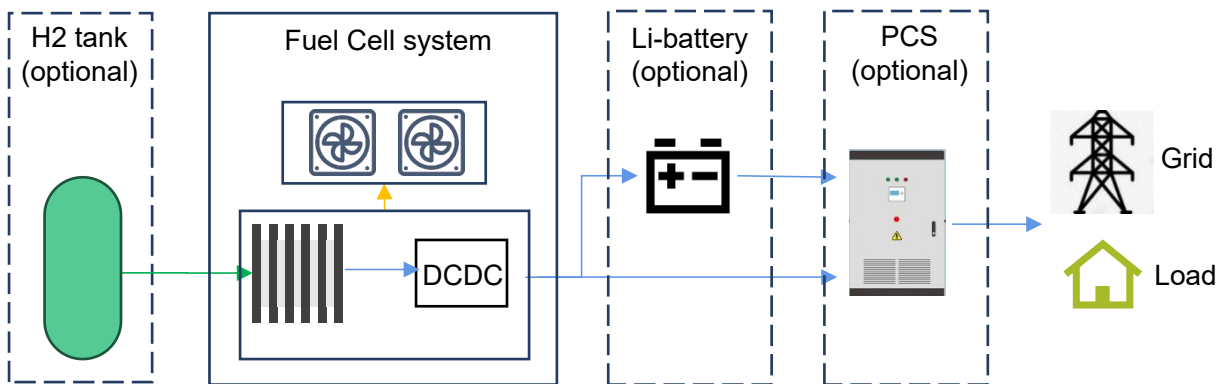
Equipped with lithium batteries and energy storage converters, it can support both grid connected and off grid use

- **Easy of capacity expansion**

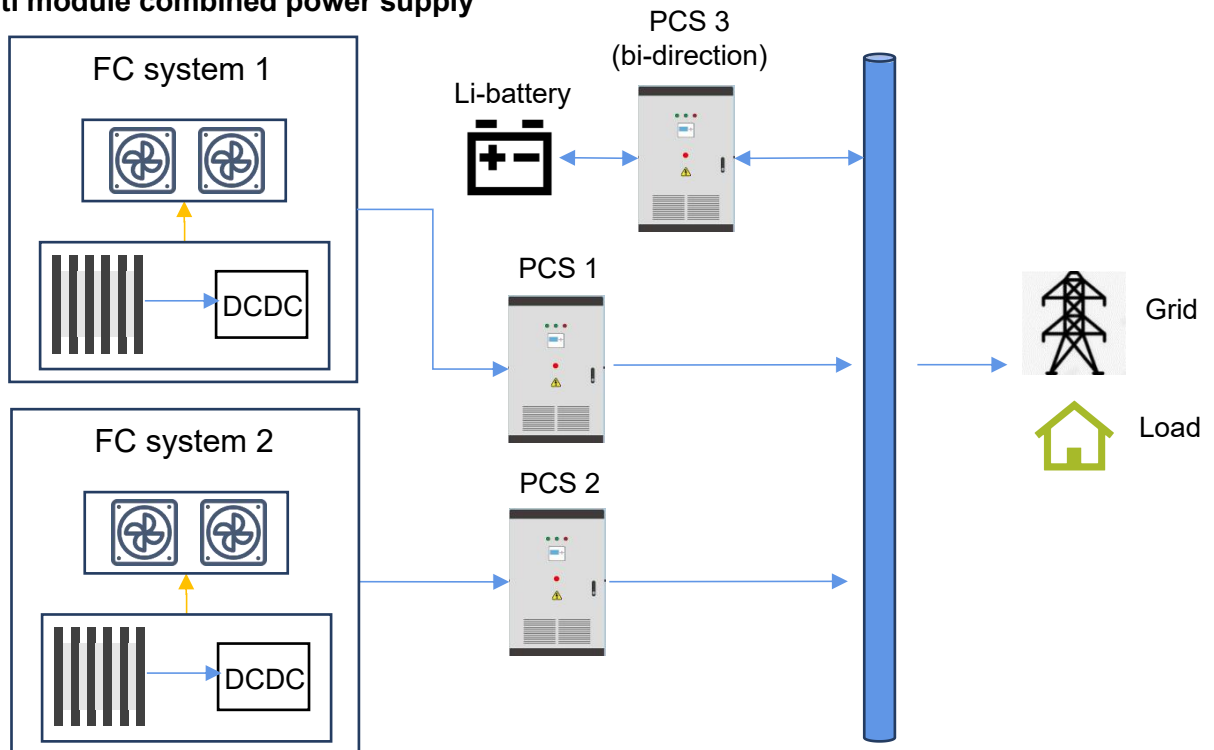
Multiple modules can be connected in parallel to expand system capacity

## Application schematics

- **Single module AC power supply**



- **Multi module combined power supply**



Project	Parameter	Illustrate
Net system power	20 kW	
Operating system voltage	260-400 VDC	
Operating system current	20-110 A	
Idle power	5 kW	
Operating temperature	-35°C - +45°C	
Minimum start-up temperature	-35°C	
Short-term	-45°C - +80°C	
Operating altitude	<1500 m	Usually at low altitudes, power decreases at high altitudes
Dimensions	1600*1150*2000mm	Customizable container
Weight	950kg	
Fuel type	Gaseous hydrogen	
Fuel purity	> 99.99%, SAEJ2719	
Fuel supply pressure	1.3 – 1.6 MPa	
Fuel efficiency	45% @ 20kW	
Oxidant	Air	
Fuel mass flow	0.86 g/s	
Air mass flow	35.53 g/s	
Coolant	Ethylene glycol 0%-50% vol. DI water	
Heat dissipation power	20kW	
Radiator coolant outlet temp.	70°C	
Control interface	CANbus	
PCS inverter	Optional	
AC output voltage	220 VAC, 50Hz, 1W+N	