Utilization of High Heat-resistant lithium-ion Capacitors (LIC) Renewable Energy and Hydrogen Energy Management System

Contribution to carbon neutrality through stabilization of renewable energy and construction of optimal power sources

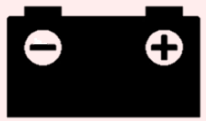
Short- and mid-cycle fluctuation adjustment

High Heat-resistant LIC Module

Renewable energy (solar and wind power generation)

DC/DC

DC/DC



Battery (LIB)

Output leveling

DC/DC

Fuel cell

H_2 generation

H_2

Long Cycle Variable adjustment

Power input/output control (Supply ⇔ Demand)

DC/AC

Burden (Equipment and Buildings)

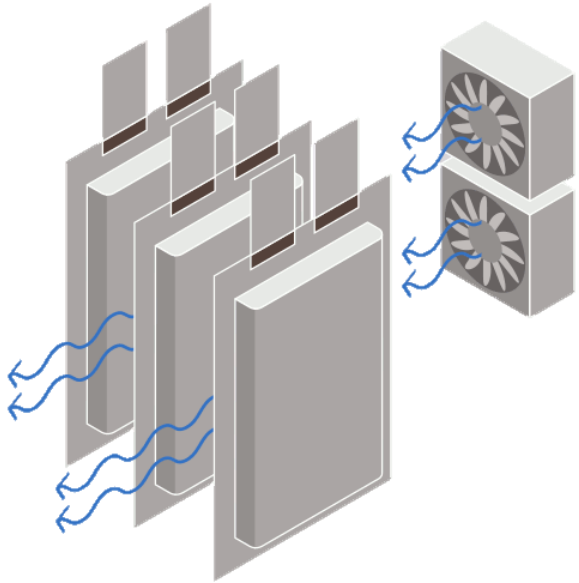
3 Features >

- Cooling Free
- Leveling of renewable electricity
- Maintenance free

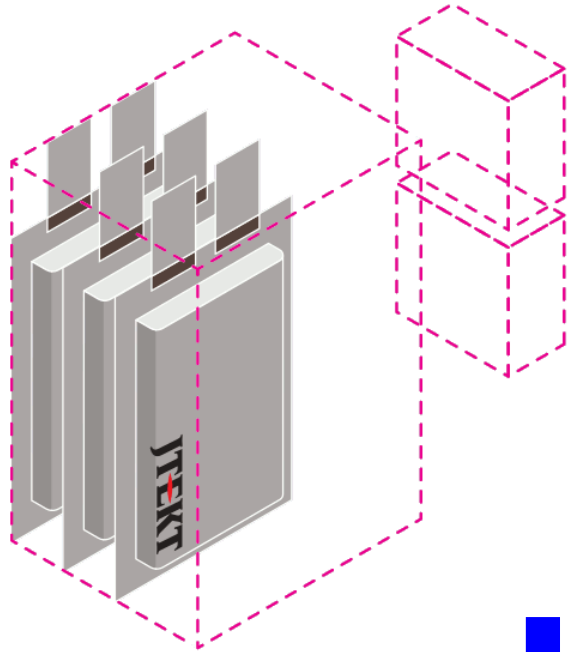
Utilization of High Heat-resistant LICs Renewable Energy Management System Strengths

1 Cooling Free

- Can be used in a wide temperature range of -40 to 85°C



Conventional



High heat-resistant LIC used

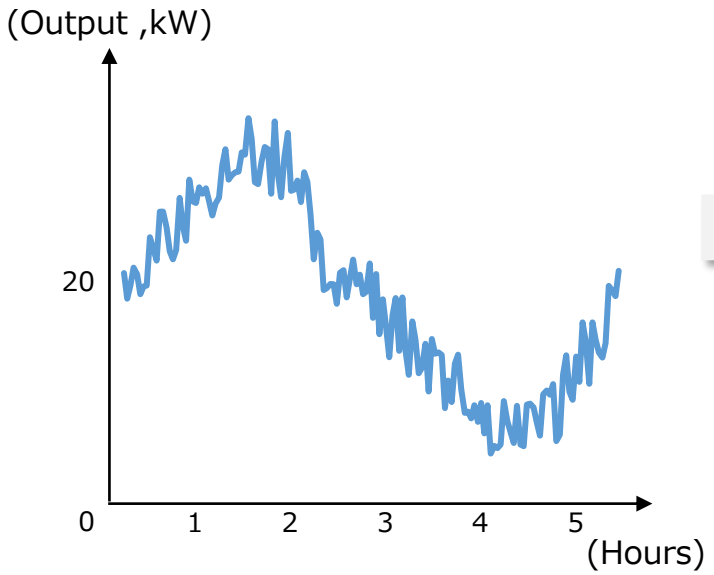
Higher output than before is possible

Contribute to downsizing and weight reduction of power supply systems

Utilization of High Heat-resistant LICs Renewable Energy Management System Strengths

2 Leveling of renewable electricity

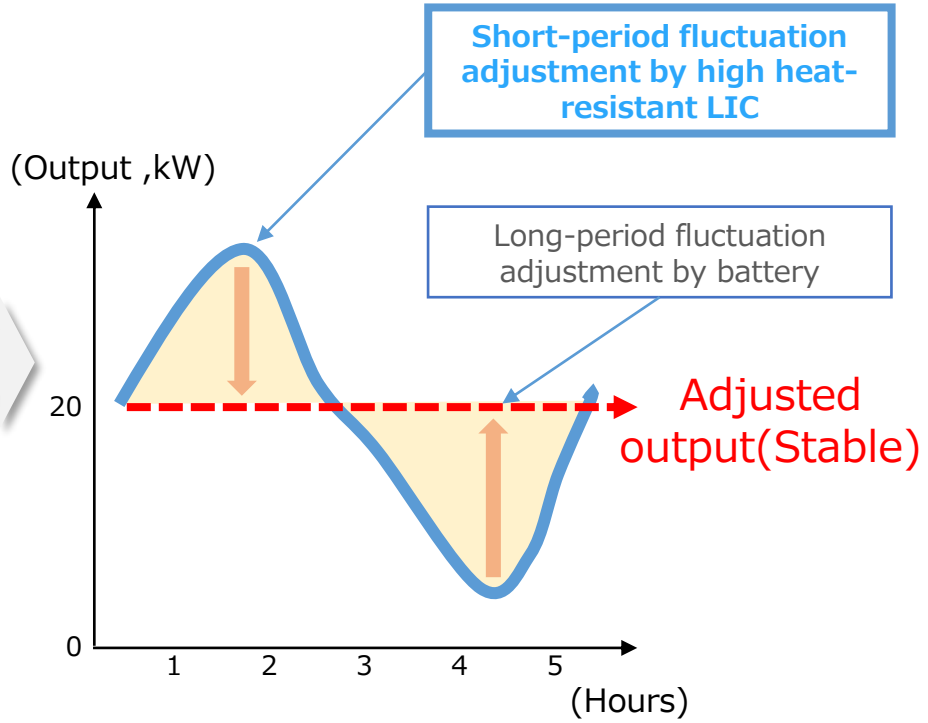
Renewable energy generation output



Absorb short-period fluctuations of a few seconds to a few minutes due to weather

High Heat Resistance LIC Module

High current rapid charging and discharging



High Heat-resistant LIC absorbs instantaneous power fluctuations (stabilizes power quality)

Utilization of High Heat-resistant LICs Renewable Energy Management System Strengths

3 Maintenance free

industry No.1 durability

- No exchanges for 15 years
- No degradation due to self-heating (Joule heating) at high load continuous use

35th Chunichi Industrial Technology Award Minister of Economy, Trade and Industry Award

72nd Society of Automotive Engineers of Japan Award Technology Development Award

Reduce customer replacement costs

Contribute to carbon neutrality!
Please feel free to contact us!