

JCC's Product Introduction

Capacitor UPS-J

- Box-type
- PCB-type (Embedded Module)
- Customization

■ Energy Storage Device:
Supercapacitor Only

Main Features

1. Long Product Life
2. Maintenance-Free Design
3. Wide Operating Temperature
4. Long Backup Time



Capacitor UPS-J (PCB-type)



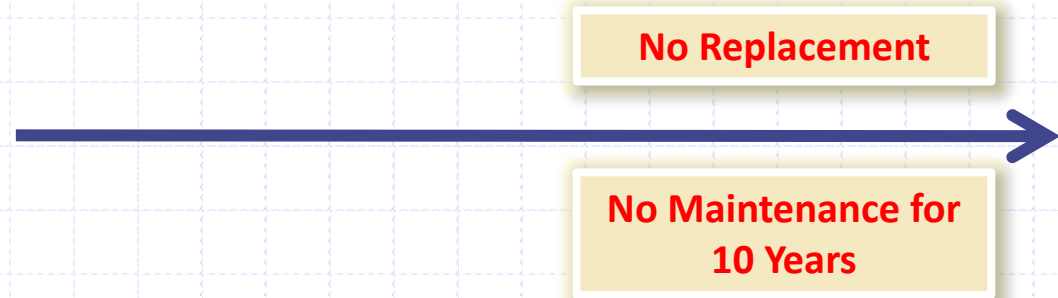
Capacitor UPS-J (BOX-type)

Feature 1. Long Product Life

■ By Using Only Super Capacitor, Almost **No Capacity Degradation**

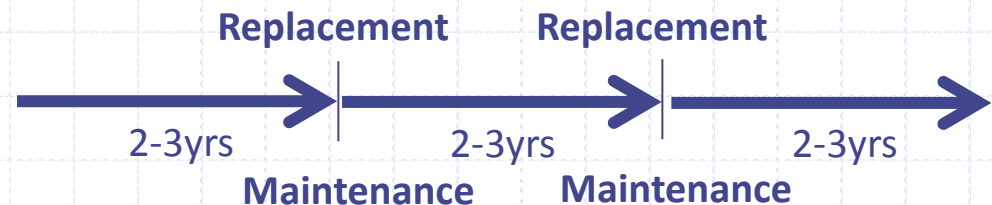
【Capacitor UPS-J】

Expected Life Time
Over 10 Years at 35°C



【Battery UPS】

Expected Life Time
2 – 3 Years at 30°C
4 – 5 Years at 20°C



※ 弊社試験による比較：他社長寿命型鉛バッテリーUPS

『Long Product Life』⇔『High Operating Reliability』

Feature 2: Maintenance-Free Design

■ No Use of Short Life Components and Breakable Components

No Battery

No Heater

No Cooling Fan

No Al. Electrolytic Capacitor

■ Our UPS Can Solve Problems and Dissatisfaction with Battery UPS

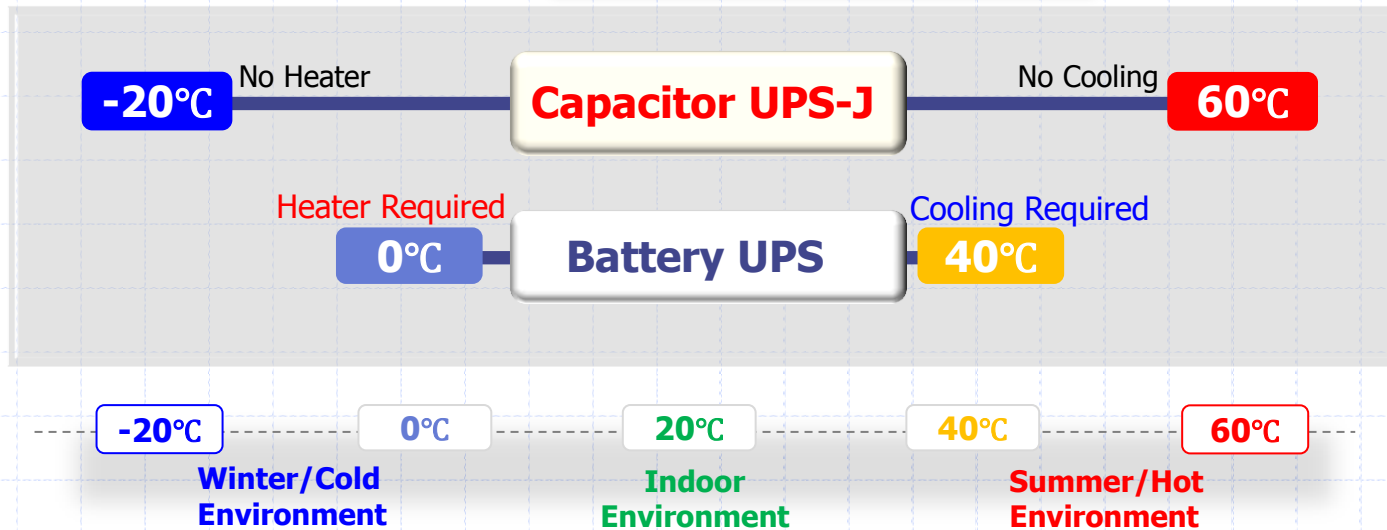
No Replacement Every 2-3 Years is Necessary

No Maintenance Every 2-3 Years is Necessary



Feature 3: Wide Operating Temperature

■ Guaranteed Operating Temp: **- 20°C ~ 60°C**



■ No Heater/No Cooling Fan = **Saving Internal Energy Loss**

High Energy Efficiency

Most Energy Can Be Used for Back-Up

Saving Energy Cost

Total Electricity Cost for Running Can Be Reduced as Compared to Battery UPS

Feature 4: Long Backup Time

■ Core Technology

Patented Technology for Circuit Control, Which Can Maximize Each SuperCapacitor's Capability by Controlling Energy Loss.

Application of JAXA's Patent for Space Satellite

■ About Patented Circuit

Originally Developed for Space-Use.

Reliability is MUST in Space Because of Difficulty of Maintenance.

■ Patent Advantageous Effect

Long Output

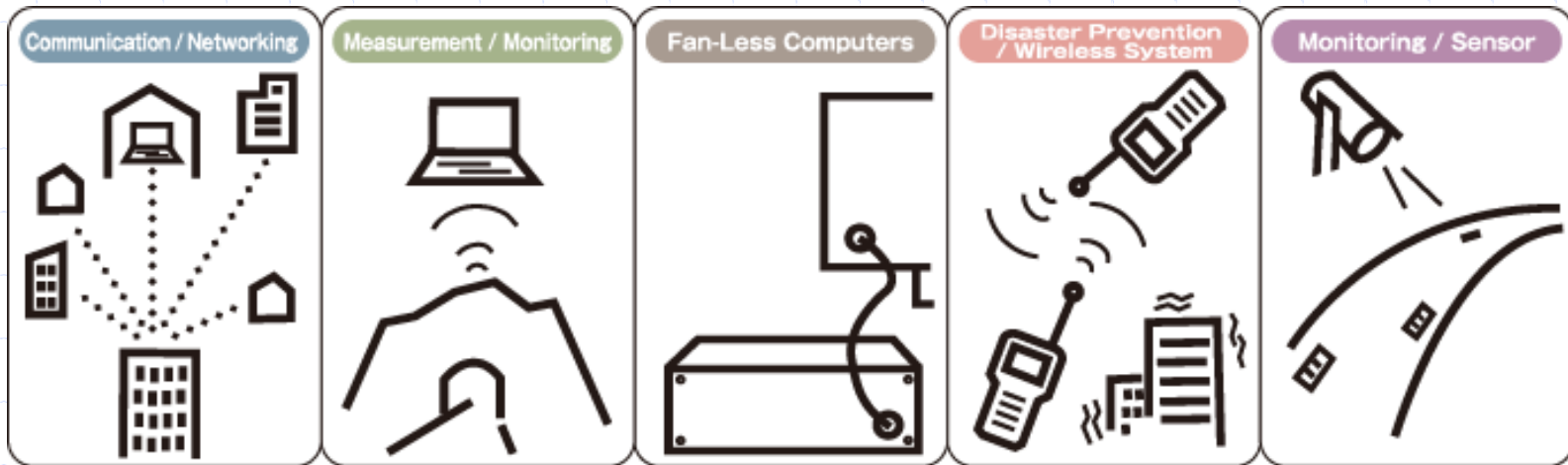
Reducing Energy Loss

Extension of Module Life



Japan Aerospace Exploration Agency

Target Application



Location: Outdoor/Places where performing maintenance is difficult or cost-intensive

- ◆ Telecommunication/Networking equipment
- ◆ Observation/Measurement equipment
- ◆ Fan-less/Box PC
- ◆ Wireless System for disaster prevention
- ◆ Monitoring/Sensor/Surveillance System

Infrastructure System
Industrial Equipments
Light Electrical Equipments

Long Life
Maintenance-Free
High Reliability