

Stable and long cycle life capacitor That's an EVERCAP[®]

Recommended application / Proposed application examples

Energy storage

Substitute for conventional batteries

1. Power supply for standby electricity

EVERCAP[®] can contribute to Power-saving and environmentally friendly applications that use storage devices for standby electricity such as: Televisions, Air conditioners, Wireless remote controller, or game equipment.

2. Power supply for back-up

As a short time backup to various standard power utilities it is lighter weight and has a longer life when compared to lead-acid batteries used in the same application.

3. Emergency power source for life maintaining equipment

Using the EVERCAP[®] in power supply for lifeline equipment, the exchange of batteries is not necessary, and a virtually maintenance-free environment is achieved.

4. On-site power supply

Using the EVERCAP[®]s with solar batteries, they become the power supply for street lights and flashing road markers.

If electricity is accumulated even in small amounts, or if it is collected from sources that dissipates away as energy that cannot be used with a converter, the EVERCAP[®] will become a power source. It is also useful for hobbyists or outdoors for power supplies.

High Input/Output Load leveling for system protection

Loading leveling for system protection can be done using the EDLC.

1. Load leveling in Control Systems - To make efficient use of electronic equipment load leveling between daytime and night time usage to assist in power saving. EDLC's can be used for storage in these applications.

- ① Solar battery system (Regional Management of electric power system, etc.)
- ② Wind power generation system (Regional Management of electric power system, etc.)
- ③ Wind power generation system (Longer life can be achieved by leveling the current from largescale generators.)

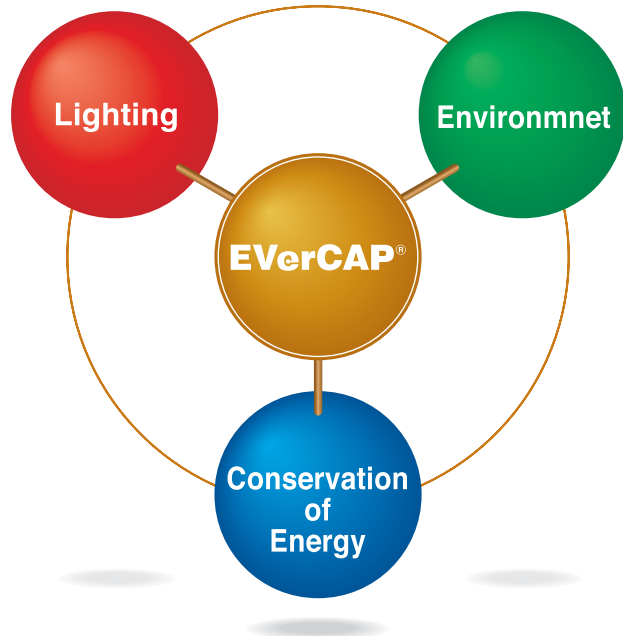
2. Assists in electrically-powered equipment and regenerative power systems for automotive applications.

EVERCAP[®] can contribute to the regenerative power system for HEV etc.

Other

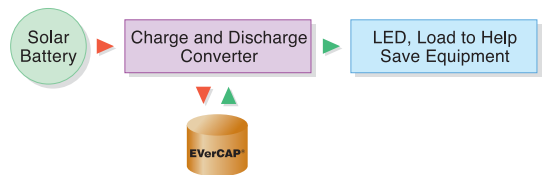
If electricity can be accumulated even by little electricity, and electricity is collected from the one that had been thrown away up to now as energy that cannot be used with a converter, EVERCAP[®] becomes a big electric power, it is also useful in the area of the hobby such as power supplies of outdoor.

EVERCAP® Applied Case



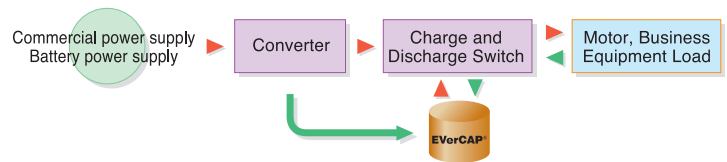
For on-site power supply · back up

A feature of product that is composed of long-life parts such as solar batteries and LED's. The EDLC is used to remove battery exchange. It is assumed that this might be used as an independent power supply because security equipment must operate in case of power outages.



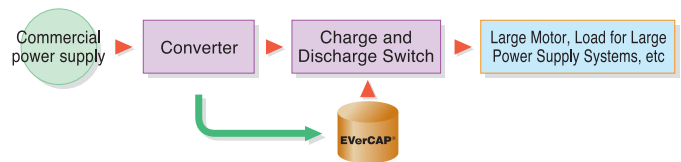
For machinery power

EDLC is used for supplying short inrush current from power supply such as motor for business equipment and actuators. In addition, it also is used for charging during regenerative braking.



For voltage sag compensator

EDLC can be used in the operation of large-scale equipment as a back up to commercial power. Additionally, there is no need to replace the components for a long time as compared to batteries because the life cycle is much longer.



For Automotive

EDLC is used for assisting in suppliance peak power and for capturing regenerative energy during braking in HEV applications. In the case of Electric Vehicles, it is used for supporting battery power. Also, it is suitable for use in the engine start/stop applications.

