

优点

1.双电层电容器优点

双电层电容器以电极和电解液表面间产生的“双电层”作为介电质，储蓄电荷。因蓄电时不产生化学反应，所以可以急速充放电，并有循环寿命长的特点。

适用于瞬间大电流的机器动力辅助装置和能源回收装置等。也可作为充电式机器的主电源使用，从而实现机器的免维修化。

◆可以大电流(急速)充放电

进行大电流(数A)充放电时，能量损失很少，且特性劣化也控制在很小程度。

◆长循环寿命

储存电能时不发生化学反应，反复充放电时其特性变化小，可以长时间使用。

◆稳定的温度特性

在-25℃时容量减少也很小，可以稳定地工作。

◆环境意识

不使用重金属等造成环境污染的物质。

2.用途

◆蓄电

实现设备的免维修化

应用实例：记忆体备份电源、马达驱动(家电、玩具)，路灯、道路标识(利用太阳能蓄电)等

◆高输出

适用于能量回收、动力辅助装置。

应用实例：不间断电源，车辆(HEV、FCV等)，自然能源发电与燃料电池的输出平滑等。

◆应用商品

利用双电层电容器的特性，我公司可提供具有延续输出功能的开关电源。

根据需求，我公司可提供不同电压与容量的组件(附带电压平衡电路)。

FEATURE

1.FEATURE OF EDLC

Electric double layer capacitor (EDLC) stores the electrode surface and the interface of the electro bath as a dielectric substance at the part called “electric double layer”

EDLC has feature that is not electrochemical reaction, whereby rapid electrical charge and discharge is possible and have longer lifecycle.

◆Capable of being charged & discharged rapidly.

Without electrochemical reaction, loss of the energy at rapid charge and discharge is small.

◆Long life-cycle

Without electrochemical reaction, deterioration by charge and discharge is small, and maintenance free.

◆Stable temperature characteristics

Less capacitance decrease at -25℃

◆Environmental hazards are considered

Capacitors are not containing heavy metal.

2.APPLICATION

◆Energy storage

Maintenance-free of the device is possible
Memory Back up, Motor Starting, LED driver
storing solar cell energy.

◆High power input / output

Re-generated energy and Power-assist is possible
Small UPS, Energy restoration-power Assist
(Hybrid car, Fuel cell, Natural energy generation).

◆Applied Products

Rubycon provides power supply units with a built-in small UPS.
Simple packages (modules), high voltage / large capacitance modules (with balancing circuits) are available upon requests.