



Supercaps Application in Industry

Jinzhou Kaimei Power Co., Ltd. is one of the most professional supercapacitor suppliers from China. Ultracapacitor is of small size and has long-using life. It is environmental-friendly and easy to install. We supply the following supercaps with high quality. Kamcap supplies high-quality ultracapacitors and our customers can choose the supercap type which best suits their needs.



coin type supercaps



winding supercaps



combined supercaps



module supercaps



high temperature supercaps



hybrid supercaps

Nowadays, supercapacitor is widely used in the application of industry. It includes three main fields, that is, UPS, fault indicator and automated robots.

Supercaps application in UPS

The function of the UPS is often determined in the first few seconds to a few minutes after the power failure or the instantaneous collapse of the grid voltage. The battery needs to provide power during this period. The shortcomings of the battery itself need regular maintenance and short life, so that the UPS is running. It is necessary to always check the state of the battery. In a data protection backup system, the time required by the UPS is relatively short. The advantages of supercapacitors are particularly pronounced, with



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output currents rising to hundreds of amps or even thousands of amps with almost no delay, and fast charging, energy storage in a short period of time, and 50,000 cycle life do not need care for ten years, so that UPS is truly maintenance-free.



Supercaps application in Fault Indicator

The fault indicator has a built-in communication module, and has a charging device to supply power thereto. The power consumption is large, and the power consumption of the disposable lithium battery is not up to the requirement, and the life of the rechargeable battery is not up to the requirement. Outdoor application conditions are harsh. Using supercapacitors can solve the above problems.

Supercapacitor features:

1. Long life, super capacitors can be charged and discharged in depth of 500,000 to 1 million times, and the life expectancy can reach ten years.
2. Recyclable, maintenance-free. Ultracapacitors have no over-discharge and over-charge restrictions, which can stabilize repeated charging and theoretically require no maintenance.
3. Using super capacitors can absorb small currents, which can better charge them and improve energy absorption efficiency.
4. The charging and discharging efficiency is high, the charging and discharging efficiency of the super capacitor is as high as 90% or more, and the charging and discharging efficiency of the battery is much lower. When the

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energy is insufficient, the energy required for reliable operation of the device cannot be provided.

5. Wide temperature range, supercapacitor operating temperature range is -40~70 degrees Celsius, working better in extreme temperature areas

6. Green and environmentally friendly, supercapacitors are not suitable for heavy metals and other harmful substances in the production process, and are a new type of green environmental protection energy.



Supercaps application in Automated Robots

Kamcap supercapacitors can be used in place of chemical batteries in automated robots. Ultracaps charge and discharge faster than batteries. They have a long service life, and do not lose stored energy at low temperatures.



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Kamcap supplies different types of supercapacitors to meet customers' various needs. If you want to want to know more about the application of supercaps or want product information, please contact us!

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