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- Longest Series Lifespan
- Environmentally Friendly
- Maintenance-free
- High Reliability

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Solar Power: Nichicon Develops ER Series of DC-Filtering Cylindrical Film Capacitors



Nichicon's new ER series has just been announced and there is a lot to be excited about. We have been able to achieve as much as a 40% reduction in size (by volume) and a 30% reduction in weight compared to similar competitor offerings. This has resulted in the *smallest such capacitor in the world*. We have also taken user convenience into consideration with this new series. Totalling an incredible 175,200h lifespan at +85°C, the ER series is guaranteed to work in some of the harshest environments – saving you from added costs and wasted time.

There are a number of exciting features developed specifically for the ER series. Here are a few that highlight the new film capacitor:

Advantage #1: Size and Performance

One of the most impressive distinctions of the ER series is its size. At $\phi 85 \times 125L$ (mm), we have made the new series the smallest such capacitor in the world. Similarly, its overall weight has decreased. Roughly 30% lighter than its predecessor, the ER series now weighs only 1,000 grams, or just over 2 lbs.

Advantage #2: Maintenance-free

Boasting a temperature range of $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ and an amazing lifespan of 175,200h @ 85°C, the ER series is the most dependable such product on the market. This incredibly reliable capacitor is proven to require little maintenance and will continue producing for years to come.

Advantage #3: Environmentally Friendly

Considering its use in renewable energy applications, we have made this series equally environmentally friendly. Our new ER series is oil-less, making it the perfect component for the "green machines" it inhabits. As with all products, it is RoHS compliant.

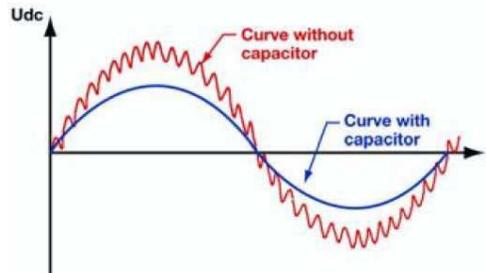
Advantage #4: Safety Mechanism

The ER series employs a safety mechanism. In the event of an excessive power surge, the ER series will continue working with a small capacitance decrease. Unlike the majority of our competition that will shut down completely, the ER series will continue working.

Advantage #5: Various Applications

With a leading industry lifespan and the most compact build on the market, the ER series is easily the best choice for solar applications. However, the ER series comes with flexibility. Whether you're looking for capacitors to fit wind power systems, motor control devices, or even industrial equipment, the ER series' is compatible with them all.

What DC Filtering?

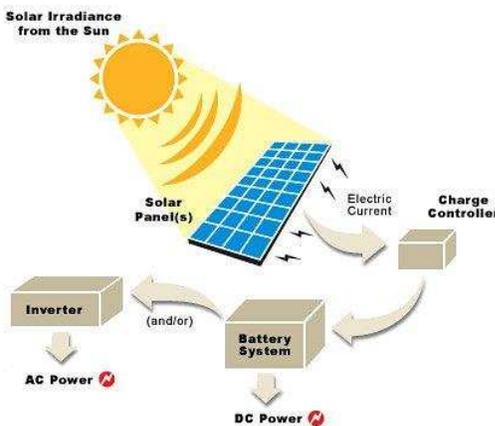


When in use, the ER series effectively stabilizes a device's voltage output. This capacitor will remove, or filter, any excessive spikes in voltage. By constantly absorbing and storing abnormal electrical outputs, the ER series will buffer uncharacteristic voltage values, creating a smoother output.

Focus Markets

- Industrial equipment, inverter smoothing circuits
- Railway-car, motor control devices, power conversion equipment
- Environment-related equipment (wind and solar power systems)

Applications



Nicknamed "GEO-Power", the ER series not only fits the needs of solar inverters, but it works wonderfully in wind power systems, as well. Other applications include, but are not limited to, industrial equipment and inverter smoothing circuits, as well as railway-car, motor control devices, and power conversion equipment.

Availability

* The new ER series will become available in November 2013 through our Nichicon America approved distribution partners.

* *Data sheets for the ER series are attached and also can be found on Nichicon's web site at www.nichicon-us.com:*

ER Series

