

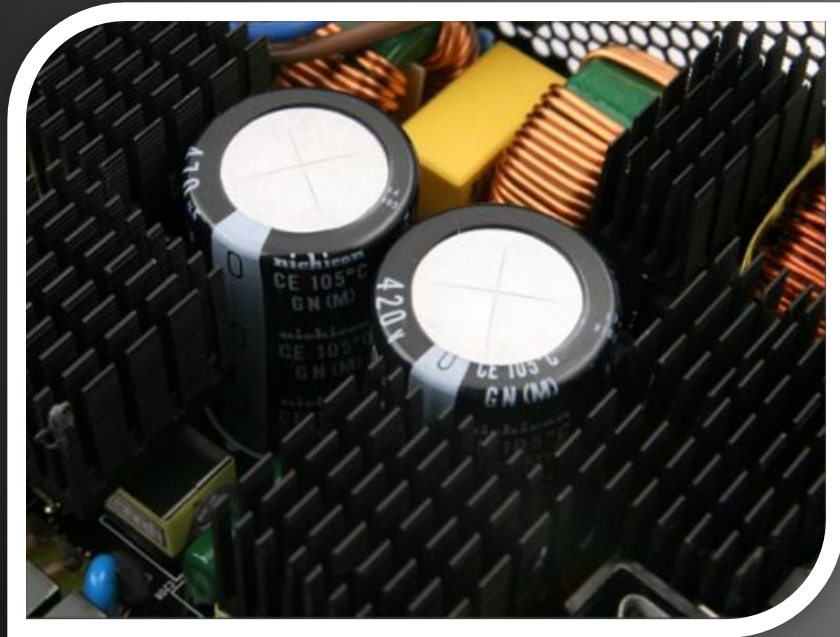
Tech Topics: Snap-In Capacitors

OH SNAP!



Back to Basics

Nichicon: High Performance Snap-In



- **Rapid Charging and Discharging**
- **High Voltage and High Reliability**
- **Long Life Assurance**

Nichicon Advantages

Rapid Charging and Discharging QS series

- 350V to 450V
- Suited for high speed and high regenerative voltage applications
- Unique technology



Nichicon Advantages

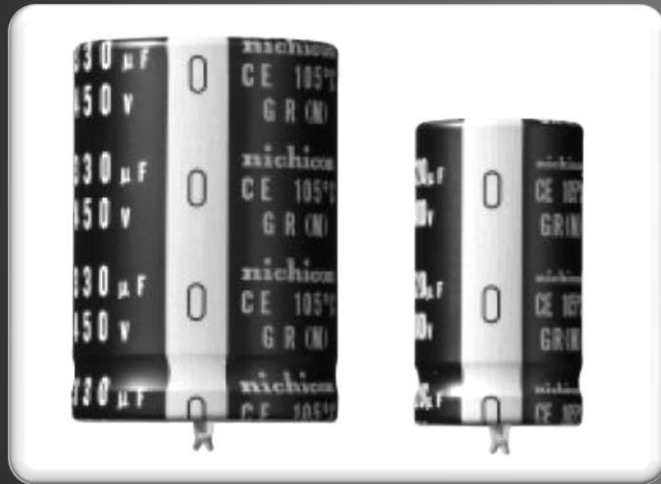
High Voltage and High Reliability GX Series



- Up to 500V at 5000 Hours
- Smaller profile for general inverters and power supplies

Nichicon Advantage

Long Life Assurance GR Series



- Up to 10,000 Hours at 105°C
- High reliability foil and heat-resistant electrolyte

Applications/Focus Markets

Power and Consumer Electronics

- AC Servomotors
- Inverter Control
- Electric Pump Motors
- Industrial Equipment
- Battery Control
- Input Filtering
- Power Supplies
- UPS Systems



Nichicon: High Performance Snap-in



- Rapid Charging and Discharging
- High Voltage and High Reliability
- Long Life Assurance

For More Information



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nichicon **TECH TOPICS**

November 2006 Volume 1, Number 1

In This Issue

- Electric Double Layer Capacitors (EDLC)
- The EverCAP
- Markets
- Applications

Advantage: Packaging being done in the South then the more the capacity can meet

Advantage: Since a generally thinner takes less energy

Advantage: Packaging lead and twice the media

Advantage: A unique battery's die leads provided the EDLC must be

Advantage: EDLC is a success

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nichicon **Tech Topics**

September 2010

In This Issue

- New Frontload Low Profile Tantalum Series
- Key Advantages
- Markets
- Applications
- Catalog Specifications

The F98 re
 The F98 re provides an of conduct same capac standard re two types, a capacitor of ETL because the inductor's spring, a 32

Advantage: Due to tank can be also capacitor, two times it

Advantage: The F98 re offers with characterized the applicat

Advantage: Tantalum I

Advantage: Reduce can of the tank temperature

Advantage: Tantalum I

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nichicon **Tech Topics**

January 2010

In This Issue

- Polymer Capacitors
- Key Advantages
- Markets
- Applications

Nichicon's New FPCAP Polymer Capacitors

Advantage #1: Longer Life

Advantage #2: Faster Charging Times

Advantage #3: Lighter and Safer

Advantage #4: No Limitation for the Charging Current

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nichicon **Tech Topics**

October 2010

In This Issue

- Electric Double Layer Capacitors (EDLC)
- The Newest EverCAP-UV
- Markets
- Applications

UV Series-Electric Double-Layer Capacitor (EDLC)

Advantage #1: Longer Life
 Rechargeable batteries typically have 500 to 1000 life cycles. After being charged and discharged a few hundred times, the capacity of the batteries starts to decrease. Eventually, they will lose most of their storage capacity. An EDLC can be charged and discharged for more than a million times without any reduction in its storage capacity. If an EDLC can be used in conjunction with the battery, it can increase the battery's life.

Advantage #2: Faster Charging Times
 Since a rechargeable battery stores energy by chemical reactions, it generally takes much longer to recharge, usually about an hour. Whereas the EDLC stores energy by the movement of ions, it usually takes from 1 to 30 seconds, therefore, it recharges much faster. Hence, the EDLC is a much better choice.

Advantage #3: Lighter and Safer
 Rechargeable batteries usually contain heavy and harmful metals like lead and cadmium. As the size increases, they could weigh more than twice that of an EDLC of the same volume. EDLCs don't contain harmful metals and are environmentally friendly.

Advantage #4: No Limitation for the Charging Current
 A current limiting circuit is sometimes needed when a rechargeable battery is used to prevent any rush charging current from damaging the battery. The EDLC has no limitation for the charging circuit provided the charging voltage does not exceed the rated voltage of the EDLC. Please note that if high ripple current, high pulse current and/or high charge and discharge currents are applied to the capacitor, the internal temperature rise generated by self-heating of the capacitor may cause deterioration greater than one might expect.

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• New Products
 • Product Upgrades
 • Vertical Markets