# CDE at a Glance

## Capacitors for Inverter Applications

**Cornell Dubilier Electronics excels with leading edge aluminum electrolytic and film dielectric capacitors designed to solve the unique demands presented within each of the electronic stages of power inverters. Among CDE's 35,000 worldwide customers are leading manufacturers of welders, UPS systems, motor drives, medical imaging, medical lasers, semiconductor processing and inverters for distributed/renewable power.**

### Power Film - DC Link



CDE offers the most advanced metallized film technology for long life and high reliability in DC link applications. Available in a variety of package styles, our technology combines high capacitance and very high ripple current capability needed for today's inverter designs for wind, solar, fuel cells, UPS systems, medical power and more.

Learn more - http://www.cde.com/solutions/inverters/inverter-grade-films

### Screw Terminal Capacitors



CDE is the industry's leading manufacturer of screw terminal aluminum electrolytic capacitors for inverter applications.

- **DCMC Highest Capacitance**
- **3186 Best Value**
- **500C 95°C, Long Life**
- **3188 85°C, Value, Long Life**
- **520C 85°C, Inverter Grade**
- **550C 105°C, Inverter Grade**

Learn more - http://www.cde.com/capacitors/aluminum-electrolytic/screw-terminal

### AC Harmonic Filter Capacitors



Choose from single phase (Type PC) and 3-Phase (Type PFCH) fluid filled AC capacitors designed for filtering harmonics at the input or inverter output. Oil filled types contain an environmentally friendly fluid and their built in safety pressure interrupter ensures open circuit failure mode at end of life. Use axial type ACF for the same high performance filtering where dry construction is preferred.

Learn more - http://www.cde.com/solutions/inverters/ac-harmonic-filter-capacitors

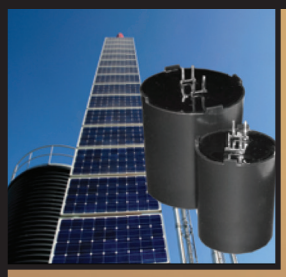
### IGBT Snubber Modules



Low inducance snubbers protect IGBT modules from overvoltage transients. Choose from three styles that mount directly to single and dual IGBT modules for maximum protection.

Learn more - http://www.cde.com/capacitors/film/igbt-snubbers

### Type UNL Series - DC Filter



This series of metallized polypropylene capacitors features voltage and RMS ripple ratings extending well beyond the best aluminum snap-in capacitors. One UNL can replace up to 3 snap-in aluminums.

- **Voltage ratings up to 1500 Vdc eliminating the need for serie connections**
- **Dry construction, no electrolyte**

Learn more - http://www.cde.com/resources/catalogs/UNL.pdf

### Snap-In Aluminum Electrolytics



From 22 x 20mm to 50 x 105mm and 2 to 5 pin we offer the industry's widest selection of snap-ins up to 500V.

- **Type SLPX 85°C, 3000 h, low cost**
- **Type SLP 105°C, 3000 h, low cost**
- **25% smaller Types 380LQ & 381LQ**
- **25% more ripple Type 381LR, 105°C**
- **4 & 5 pin Types 382LX**

Learn more - http://www.cde.com/capacitors/aluminum-electrolytic/snap-in

CDE ENERGIZING IDEAS

CORNELL DUBILIER

**www.cde.com**

**Contact us for your next design:**


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# POWER ELECTRONIC APPLICATIONS FOR CDE CAPACITORS



| | ALUMINUM ELECTROLYTICS | | | | | | | | | | DC FILM | | | | MICA | | | | OTHER TYPES | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Screw Terminal - DCMC, 3186, 550C | Snap Mounts - 380LX, 381LX, SLP, SLPX | Strobe | Photoflash | MLP / MLS Flat. | Plug-In | Leaded | SMT | Aluminum Polymer | Non Polar | SMT | Leaded | Power - 947C, UNL | IGBT Snubbers | Dipped Leaded | Transmitting | Clad | SMT | AC Harmonic Filter | SCR Commutation |
| **RENEWABLE ENERGY** | | | | | | | | | | | | | | | | | | | ◆ | |
| Fuel Cell | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | ◆ | |
| Wind Power | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | ◆ | |
| Photovoltaic | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| **MEDICAL** | | | | | | | | | | | | | | | | | | | | |
| Laser | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | ◆ | | | | | |
| MRI Gradient Amplifier | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | ◆ | | | | | |
| Xray | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| **ELECTRIC VEHICLES** | | | | | | | | | | | | | | | | | | | | |
| Train Inverter | ◆ | | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| Train Door Opener | ◆ | | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| Electric Scooters | ◆ | | | | | | | | | | | | ◆ | | | | | | | |
| Electric Cars | | | | | | ◆ | ◆ | | | | | | ◆ | | | | | | | |
| Military Truck and Tanks | ◆ | ◆ | | | ◆ | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| **POWER SUPPLIES & HOLDUP** | | | | | | | | | | | | | | | | | | | | |
| UPS | ◆ | ◆ | | | | ◆ | | | | | | ◆ | ◆ | ◆ | ◆ | | | | ◆ | |
| SMPS | | ◆ | | | | | ◆ | | | | | ◆ | ◆ | | | | | | | |
| Flywheel Storage | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| Battery Chargers | ◆ | | | | | | | | | | | | | | | | | | ◆ | |
| **INDUSTRIAL EQUIPMENT** | | | | | | | | | | | | | | | | | | | | |
| Welding | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | ◆ | |
| Laser torch | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| Semiconductor Processing | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| CNC Machines | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| Electric Cranes | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| Conveyors | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| Forklifts | | | | | | | | | | | | | | | | | | | | |
| Plasma Gas Generators | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | ◆ | |
| **HVAC (AIR HANDLING)** | | | | | | | | | | | | | | | | | | | | |
| Rooftop Air Conditioners | ◆ | | | | | | | | | | | ◆ | ◆ | ◆ | | | | | ◆ | |
| Train & Bus Air Conditioners | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| **MOTION CONTROL** | | | | | | | | | | | | | | | | | | | | |
| Elevator Drives | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| CNC | ◆ | | | | | | | | | | | ◆ | ◆ | ◆ | | | | | | |
| Motor Drives | ◆ | ◆ | | | | | | | | | | ◆ | ◆ | ◆ | | | | | ◆ | ◆ |


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