

# United Chemi-Con Large-can capacitors deliver long life for inverter applications.....

June 1, 2013

Built in North Carolina, USA and offered in capacitance ranges from 1500  $\mu\text{F}$  to 22,000  $\mu\text{F}$ , United Chemi-Con's New U37 Family of screw-terminal aluminum electrolytic capacitors provides high ripple current and long life to extend reliability in power-inverter systems. The family has 3 series. The U37F [U37F Bulletin](#) has an endurance rating of 5000 hours at +85°C with the rated ripple current applied. Useful life can exceed 150,000 hours at +45°C and 1.5 times the ripple current. The U37L [U37L Bulletin](#) has an endurance rating of 10,000 hours at +85°C with the rated ripple current applied. Useful life is 175,000 at +45°C and 1.5 times the ripple current. The U37X [U37X Bulletin](#) has an endurance rating of 15,000 hours at +85°C with the rated ripple current applied. Its useful life is also 175,000 @ 45°C and 1.5 times the ripple current applied.

Other specifications for the U37 family include voltage ratings from 350 VDC to 500 VDC, standard capacitance tolerance of  $\pm 20\%$ , and leakage current of 0.02 CV ( $\mu\text{A}$ ) or 5 mA, whichever is smaller, after 5 minutes at +25°C. A 12,000- $\mu\text{F}$ , 500-V capacitor has a can size of 89x219 mm, maximum ESR (equivalent series resistance) of 8 m $\Omega$  at +25°C and 120 Hz, and rated ripple current of 33.5 A RMS at +85°C and 120 Hz, 40.2 A RMS at +85°C and 300 Hz, and 46.9 A RMS at +85°C and >3 kHz. Contact us at [info@chemi-con.com](mailto:info@chemi-con.com) or Call (847-696-2000) for more information. **IMPROVE YOUR SYSTEMS PERFORMANCE NOW!**

