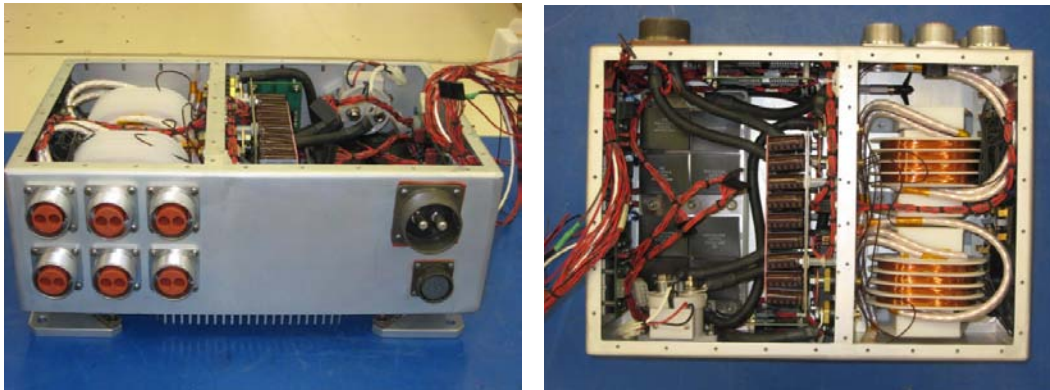


## Capacitor Charger for Army FCS Applications, 28V Input

RCT Systems developed, manufactured and tested a number of high power series resonant converters (SLR) for high voltage, high power capacitor charging under contract with the US Army Research Laboratory (ARL). This capacitor charger is successfully using IGBT switching devices in parallel driving a 90 khz resonant conversion process in such a way as to avoid switching losses and incur only conduction losses. These converters operate on a 28Vdc vehicle bus, and generate 10kV for specific Army applications. The topology is scalable up to 80MW applications.



RCT Systems 28Vdc input 10kv output 2kW/4kWpk  
Capacitor Charging DC/DC Converter