

# Arctos

## Case Studies

### Trickle Charger

A client had a lithium ion battery that was being overcharged in its application, running the risk of a spark and/or rupture. The battery is constantly exposed to gasoline and other petrochemical fumes.

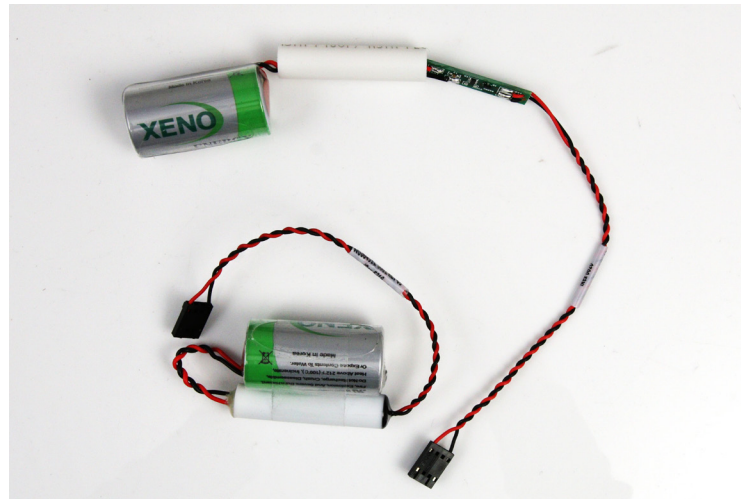
Challenge

It was deemed a safety hazard but was deployed in thousands of units already in the field. The client was anxious to get the safe replacement batteries in place.

### Our Solution

Our team suggested putting a circuit board on the cable to the battery. The PCBA would act as a diode once battery was fully charged, which stopped the flow of electricity from continuing to charge the battery.

We designed and built a simple system to completely encapsulate the PCBA in-line on the cable, completely insulating the PCBA from being exposed to fumes as well.



### Results



Our team had a prototype in the client's hands in 24 hours and by the end of the week, we won the business.



Our solution even has a functional test to make sure the board performs as expected. We have provided well over 100,000 assemblies of this cable since we began manufacturing.