



NAATBatt Annual Meeting & Conference-2020

Battery Innovation Summit

Prashanth Jampani

February 12, 2020



**Batteries Now Power
Everything**

**Everything Takes
Too Darn Long to Charge**



Long Charge Times

3-6 hours



**72 to 96 Hours at 110V
7.75 to 10 Hours at 220V
1 to 1.5 Hours at 440V**



TODAY'S FAST CHARGE TECH

Brute force approach of just pushing more current into existing battery structures causes 3 problems

Decreases Life of Battery

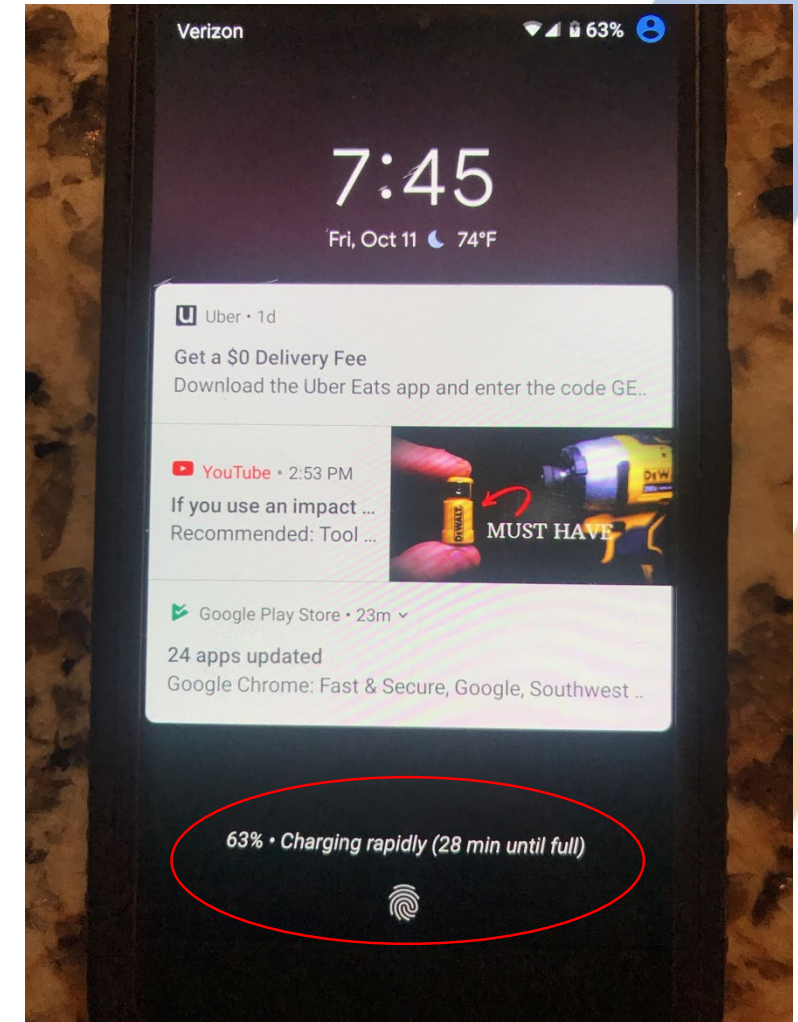
Chemical break downs causes batteries to have much shorter lifetimes

Creates Excess Heat

Wastes energy, needs to be managed, limits current and therefore speed of charge

Still Not That Fast

Chemical process is slower so basically although faster it is just not that fast





Our Claim to Fame!

**“Battery Streak Batteries Charge
to 80% in 10 minutes”**



Patented Technology & Corporate Overview

➤ Patent on Various Materials

➤ Claims cover metal, oxide, carbon, conducting polymer; includes mixed metal oxides.

➤ Exclusively-licensed by Battery Streak:

➤ Fast-charging material invented at UCLA, exclusively licensed and commercialized by Battery Streak.

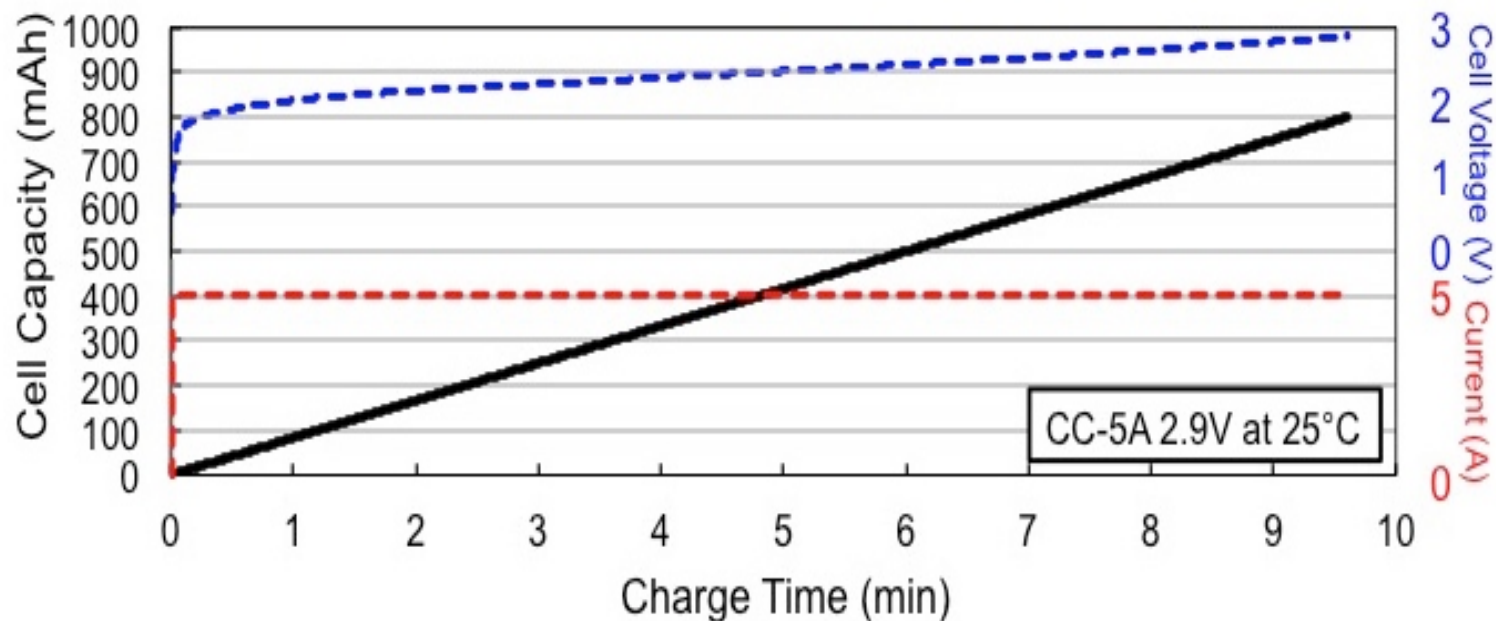
➤ Backed By Act One Ventures and Management



UCLA



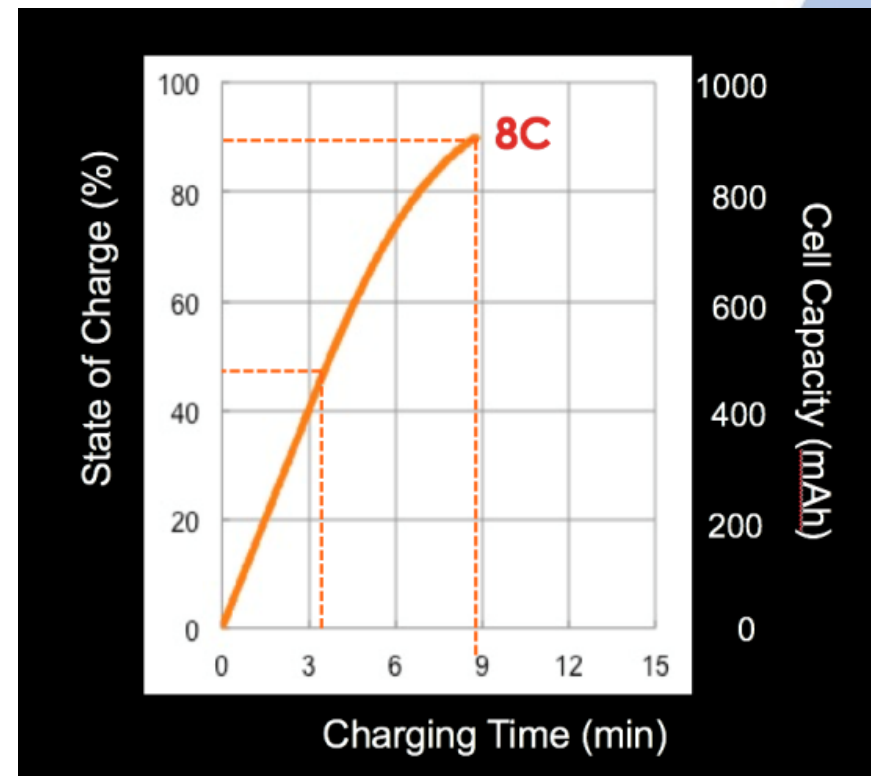
1 Ah prototype cell performance



RED (I) = 5A

BLUE (V) = 0 to 2.9V

Black (mAh) = 0 to 1000



50% SOC < 3.5 minutes

80% SOC < 9 Minutes

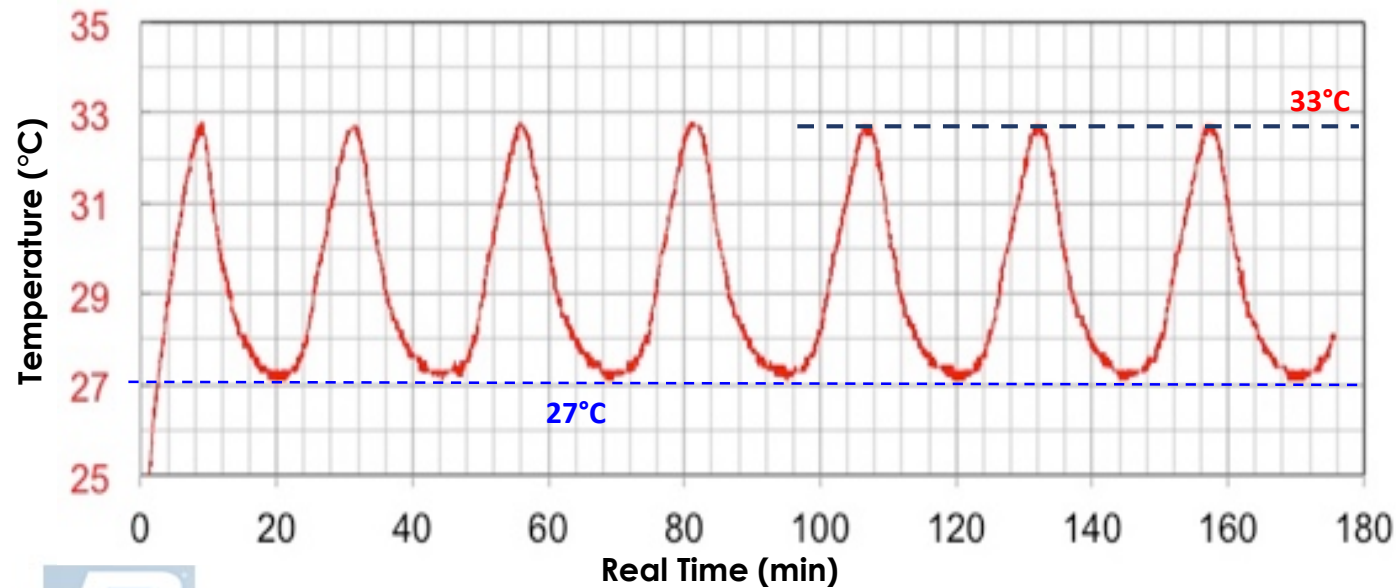


Our cells stay cool at extremely high rates!



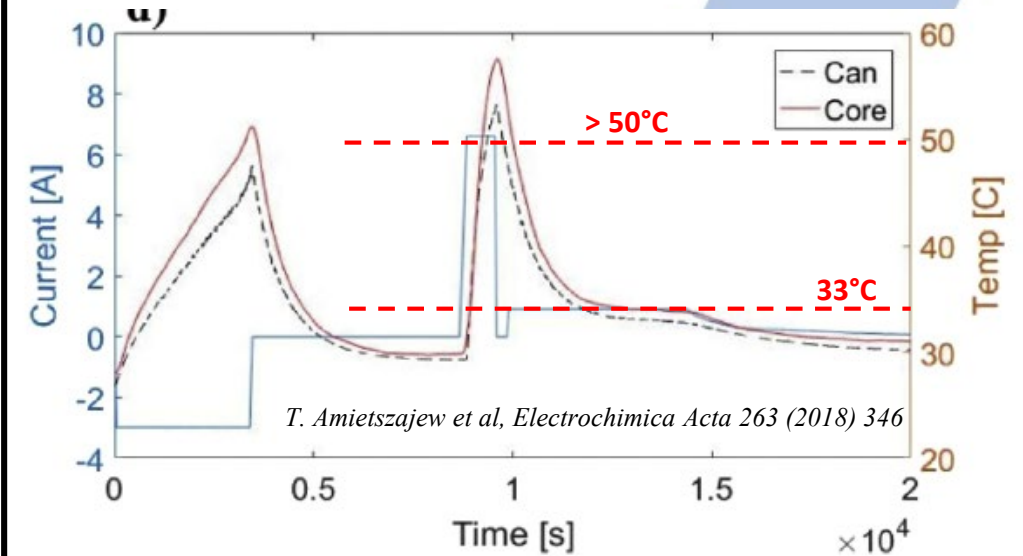
Battery Streak Cell - **6C**

Max Temp= **91°F/33°C**



Commercial 18650 Cell - **2C**

Max Temp = **122°F/50°C**





Summary

- Materials with phase change lose capacity during fast charging
- Nanostructured pores in Battery Streak materials provide massively parallel charging for high-power application.
- Battery Streak nanostructured materials are also effective in reducing particle resistance and heat generation during fast charging.
- In Battery Streak, we bring true and safety value to our customers:
 - Charge Lightning Fast and Remain Cool!





Thank you For Your Time

Battery Streak, Inc
1270 Calle El Cameron
Thousand Oaks, CA 91360
www.batterystreak.com

