**AllCell Technologies, LLC**

**IP List – August 2021**

* **PCM battery thermal management:**
  + “Thermal Management of Battery System” US 6,468,689 B1
* **PCC matrix for battery thermal management:**
  + “Battery System Thermal Management” US 6,942,944 B2
* **PCC matrix for battery thermal management & Safety:**
  + “Battery System Thermal Management” US 8,273,474 B2
* **Microchannel heat exchanger with PCM fluid:**
  + “Microchannel Heat exchanger with Micro-Encapsulated PCM for High Flux Cooling” US 8,109,324 B2
* **Flexible PCC:**
  + “Flexible PCM Composite for Thermal Management Systems” US 10,005,941 B2
* **Multi-temperature PCM:**
  + “Energy Storage Thermal Management System Using Multi-Temperature PCM” US 10,164,301 EPO 2,719,013 (Validated in Germany and France)
* **PCC Thermal State of Charge:**
  + “Thermal State of Charge of PCM In a Battery Pack with a PCM Thermal Management” US11,050,101, WO 2018/156251 A1