



# Appendices

# Appendix C: Target Catalog

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| --- | --- | --- | --- |
| **Function** | **Target Description** | **Metric Description** | |
| **Cool Battery** | **<40 [°C]** | **Temperature** | |
| **Heat Battery** | **>20 [°C]** | **Temperature** | |
| **Avoid puncture** | **20 [N]** | **Force** | |
| **Withstand thermal cycling** | **2000 Cycles** | **Durability** | |
| **Minimize weight** | **1.5 [kg]** | **Weight** | |
| **Minimize energy loss due to pressure losses** | **1 [kpa]** | **Pressure** | |
| **Accommodates pouch Swelling** | **10% of cell volume [m^3]** | **Size** | |
| **Minimize total cost of ownership** | **$100** | **Cost** |
| **Method is resistant to changing weather conditions** | **Rust and Freeze Resistant** | **Durability** |
| **Method adds minimal volume to the module** | **340x230x50 [mm]** | **Size** |