



# Prototype A

The smallest of our units for lower wattage appliances.

## Specs

- 50.4V, 25.2Ah, 1.3kWh, 1200W
- Molicel P42A 21700 cylindrical cells, 84 cells in 14S6P configuration, similar cells to 2020+ Teslas
- 42.0 – 58.8 V range
- BMS with under/over-voltage protection, temperature protection, real-time cell monitoring via USB or Bluetooth, 25A circuit breaker
- Max continuous discharge of 25 A (1200W)
- Outputs: 12 VDC, 5V USB x 4, 120 VAC x2

This prototype was the first battery pack completed and served as a valuable learning experience. This battery pack is a self-contained unit with the charger and inverter mounted inside the enclosure, which is easily carried by one person, or mountable in a 19" rack. It is capable of powering small appliances, perhaps even a 1200W microwave, and charging phones, laptops etc. This small battery pack could be suitable for light use while camping or as a backup for a home or cabin in the event of a power outage. This design does not require any external components other than the power cord for the charger, and the rack mount capability allows it to be scalable. These features provide this small battery pack an advantage over other designs available in the market. Currently, this model is not intended to be sold and only serves as a test platform and demonstration piece.

