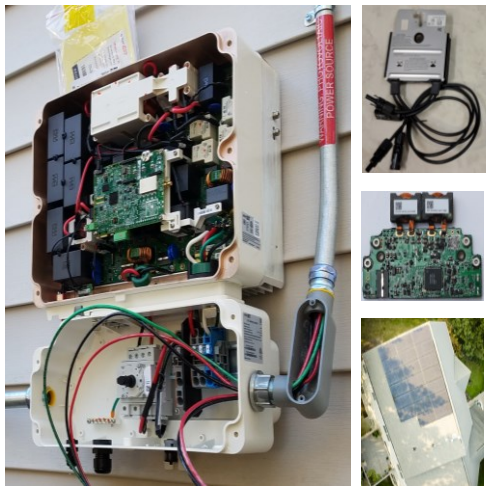
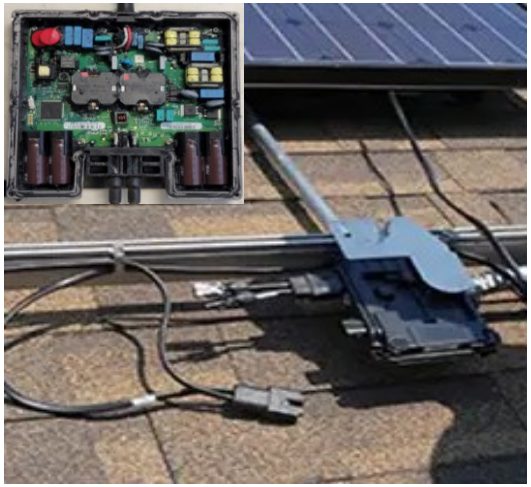
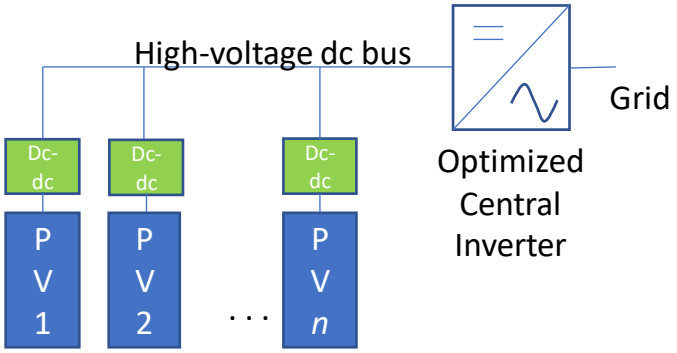
A Novel Power Architecture for Solar PV Systems







- **Problem:** Limited choice in power architectures – central inverter, optimizer systems & microinverters offering various advantages and disadvantages
- **Solution:** A two-stage architecture that achieves the best of all worlds
- **Plan:** Develop a compact and efficient high-voltage dc-dc converter that works with a central inverter and demonstrate a 2-3 kW system
- **Team:** Buck Boost – RTP, NC based team of multi-disciplinary engineers passionate about green technology. Combined experience of 60+ years in power electronics and electrical engineering
- **Network support:** Yes Solar Solutions, Transphorm (GaN) and UNC Charlotte