The patent pending **DPS-250** is a DC power conversion system (PCS). The end application for the power conversion system is intended to be interfacing of battery energy storage with existing or new 1,000V to 1,500 V PV arrays and central inverter systems.

The PCS is capable of operating in voltage, current and power control modes with the capability of on-the-fly switching between the modes. Additionally, advanced automatic excess PV energy recapture and time-shift of PV energy may be realized using the patent pending DPS-250 in solar plus storage installations.

Up to eight units can be paralleled together to provide between 250kW and 2MW of storage power.
**ELECTRICAL SPECIFICATIONS**

- **DC Input Voltage Range (Battery Port):** 550-1500 V<sub>DC</sub>
- **DC Input Voltage Range (PV Port):** 550-1500 V<sub>DC</sub>
- **Max Continuous Power Rating:** 250 kW
- **Max Continuous Current Rating:** +/-312.5 A<sub>DC</sub>
- **Efficiency Average:** 98.2% (actual)
- **Aux/Controls Power:** Customer supplied 120V, 1-ph, 60/50Hz, 1kVA service (Other options available)
- **Battery Technology:** Compatible with all battery technologies

**ENVIRONMENTAL SPECIFICATIONS**

- **Operating Temperature:** -10 to +50°C
- **Cooling:** Forced Air Cooled
- **Rated Max Elevation:** 1000m above sea-level without de-rating
- **Enclosure:** Outdoor NEMA 3R
- **Weight:** 1300 lbs.
- **Dimensions (LxWxH):** 33.5" x 39.4" x 80.50"
- **Cable Connections:** Bottom or Side Entry

**PROTECTIONS & CERTIFICATIONS**

- **DC Disconnection & Protection (PV):** Built-In
- **DC Disconnection & Protection (ESS):** Built-In
- **Battery Overvoltage Protection:** Built-In
- **Safety Certifications:** Ul-1741 (pending)

**USER INTERFACE**

- **Remote Communication:** Modbus TCP/IP
- **Remote Monitoring:** Real time monitoring with automated alerts and data logging on front panel indicating operation mode & alarm/fault status
- **Local Indicators:**