The POWERSTATION 247 is a fully integrated scalable system 5 kW, 10 kW to 15 kW. It’s free standing cabinet is easy to install and easy to use. The system integrates up to 3 hybrid inverters, solar MPP-trackers, charge controller and lithium-iron batteries, also all necessary field wiring terminals and disconnect switches. It is truly and uniquely ‘plug and play’.

1. PV-Connection 6 PV-Strings Max.
2. PV Disconnect

1. Grid Connection
2. AC Transfer Switch
3. Smart Grid Manager
4. Grid Disconnect
5. Visual Display
6. CAN-Bus Control Center
7. 1, 2 and 3 POWERMODULES* each integrates:
   - Hybrid Inverter 5 kW
   - Dual MPP-Tracker 6 kW
   - Battery Charger 3 kW
   - Anti-Islanding Protection
8. Air Cooling
9. PM Disconnect MCBs
10. Battery Fuses
11. Battery Management
12. Battery Disconnect
13. 30 Cells, Lithium-Iron Battery Bank 96 V

*POWERMODULES are designed, engineered and manufactured by the concept by US corporation.
POWERSTATION 247 DETAILED FEATURES AND ADVANTAGES

**Feature:**
- PV Disconnect Switch
  - Advantage:
    - No external PV disconnect required
    - No external junction boxes
    - Every PV-String connects directly!

**Feature:**
- High Efficient Automatic Enclosure Ventilation
  - Advantage:
    - System reliability on hot days

**Feature:**
- Battery Circuit Breakers and Distribution
  - Advantage:
    - No external components or installations required

**Feature:**
- Utility Disconnect Switch
- Automatic Load Transfer Switch
- Residential Energy Management
- Internet Connectivity
  - Advantage:
    - No external grid disconnect required
    - No external load transfer switch required
    - PV harvest optimized for your customer's own consumption
    - Remote monitoring via smartphone

1, 2 and 3 POWERMODULES each integrates:
- Hybrid Inverter 5 kW
- Dual MPP-Tracker 6 kW
- Battery Charger 3 kW
- Anti-Islanding Protection

**Feature:**
- Battery Disconnect Switch
  - Advantage:
    - No external battery disconnect

**Feature:**
- Battery 96 V/180 Ah
  - LiFePO4
  - Integrated Battery Management System
  - Advantage:
    - No external battery
    - No battery cabling
    - Triple safety for battery
    - No environmental issues

Lithium batteries must be operated with a suitable battery management system (BMS). The POWERSTATION 247 is equipped with a BMS fulfilling the latest safety standards.

The National Electric Code NEC requires readily accessible disconnect switches for utility, PV-inputs, and battery. The POWERSTATION 247 incorporates all NEC-required disconnection switches.