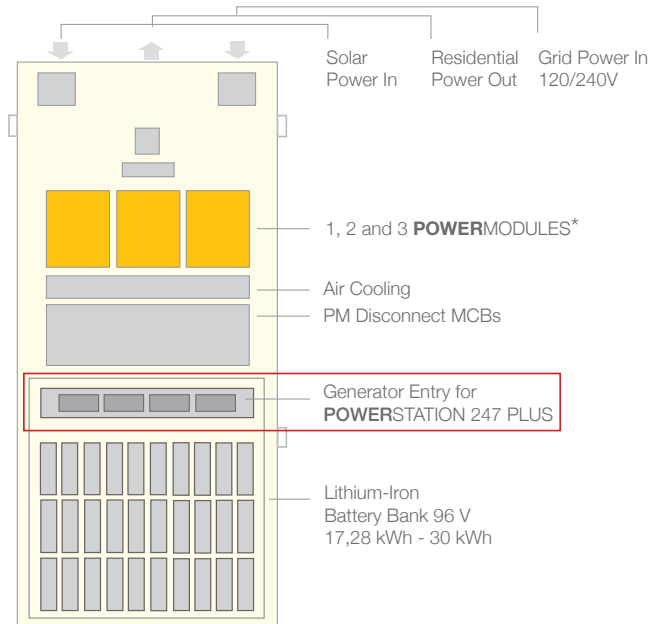


The **POWERSTATION 247 PLUS** is as an enhancement of the standard unit, equipped with an additional modular AC to DC power converter to feed energy of external AC-sources (external generators or 2<sup>nd</sup> grid connection) directly into the battery circuit. The rectifier set is integrated into the battery enclosure and may be equipped with 2-4 rectifier modules, 1.75 kW charge power for each module. The AC source is connected on screw terminals in the battery enclosure.



**APPLICATIONS:**

- Auxiliary generator input to extend back-up time in case of grid outages
- Improved battery charge time in case of low PV harvest or extended battery capacity
- Forced battery charge to provide the available capacity to compensate load peaks
- Connection of wind turbines (needs further technical evaluation depending on type)

**Technical Specifications complementary to POWERSTATION 247:**

Charge Power	7 kW max., 3.5-7.0 kW for 2-4 modules
Input Voltage Grid Scheme	120/240 VAC, 3-wire, 60 Hz
Input Voltage Range	85-300 VAC, 45-66 Hz
Input Power Factor	>0.99 for 50-100% load
Efficiency	94 %
AC Circuit Breaker	external, 20 A (2 modules) to 40 A (4 modules)
DC System Voltage	96 VDC; 30 cells LiFePO4
Maximum Charge Voltage	105 VDC
Maximum Charge Current	33-66 A for 2-4 modules
Temperature Range	0-50°C / 32-122°F
Additional Weight	10-14 kg / 22-31 lbs.
Standards	
Safety:	UL 60950-1 (UL-certified)
EMC:	EN 61000-6-1 /-2 /-3 /-4 /-5
Harmonics:	EN 61000-3-2