



Liberty Box

Pat pend 13/433,322 TM 85/555,787

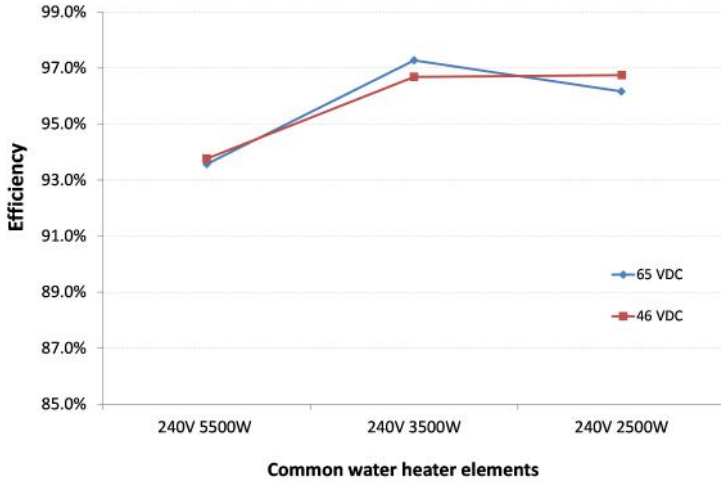
- Environmentally friendly
- Cost Effective and durable
- Light PV panels replace heavy thermal collectors
- No plumbing
- No pumps
- No leaks
- No freezing problems
- No roof reinforcement necessary
- Does not require fluid or Glycol
- Uses existing water heater
- Guaranteed 5 year limited warranty!



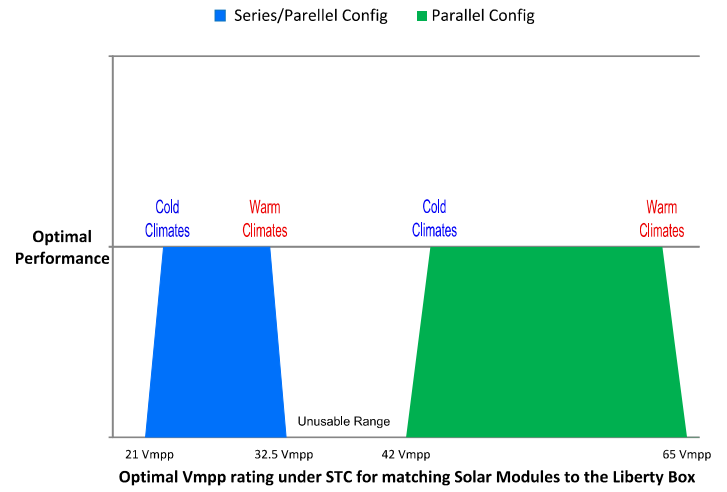
Liberty Box Model: EDS 0001 Rev. 1.5

Input Requirements	
Maximum Input Voltage	75 VDC
Range of Input Operating Voltage	40 - 65 VDC
DC Input Start Range	40- 45 VDC
Maximum Input Operating Current	19 Amps DC
Maximum Input Short Circuit Current	24 Amps DC
Output Characteristics	
Nominal Output Voltage	120 VAC
Output Voltage Range	80 - 160 VAC
Output Freq Range	59.3 - 60.5 Hz
Maximum Continuous Output Current (A)	8 Amps
Maximum Continuous Output Power @ 25° C, 65 VDC input	850 W
Maximum Continuous Output Power @ 40° C, 65 VDC input	765 W (90%)
Maximum Continuous Output Power @ 50° C, 65 VDC input	680 W (80%)
Max Output	900 W
Output Power Factor	0.95 - 1.0
Environmental	
Operating Temperature Range	-10° C to +50° C
For Indoor, Dry Location Use Only	

Common element efficiency testing



Module Selection graph for Liberty Box Rev 1.5 applications

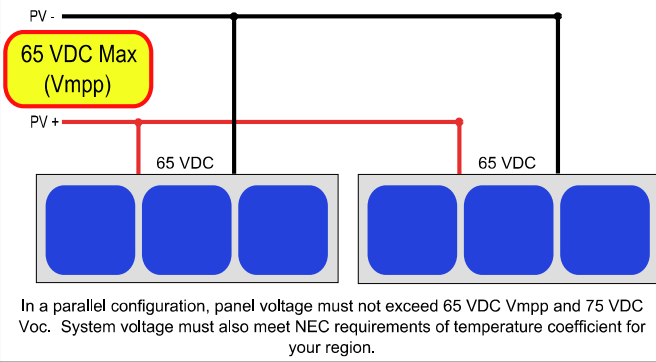


System designers should use the above graph to assist in solar module selection when designing PV hot water systems.

For optimal system performance in both cold and hot environments, systems should be designed to use solar modules with a Vmpp rating in the center of either of the above graphs.

Systems designed for use in hot climates should select panels in the upper range of the above graphs while systems in colder climates should select modules on the lower range of the graph.

Parallel Array Configuration



Series Array Configuration

