





ULITIUM 200

The Ulitium has the following features:

- 1) 240Lumen Light-output (equal to 7W CFL bulb or 40W Incandescent bulb)
- 2) 23% efficiency (compared to 1 % for incandescent and 5% for CFL)
- 3) Build in Energy storage (60kJ) and management electronics (so no need for separate battery and controller anymore) Solar panel plugs directly to the lamp through a Hub (which provides lightning surge protections).
- 4) Dimmable from 240 down to 120 Lumen and 25 Lumen and off by integrated pull-switch
- 5) Extreme low energy consumption:

- a. 8kJ/h @ 240 Lm,
- b. 4kJ/h @ 120 Lm,
- c. 1kJ/h @ 25 Lm,

- 6) Long battery Life.

- a. 7.500 h @ 8kJ/h (240Lm) (equal to 3.4 years @ 6h/day)
- b. 15.000 h @ 4kJ/h (120Lm) (equal to 6.8 years @ 6h/day)

Note : Battery will not be dead after 3.4 years but will be reduced in capacity by 25%; down to 45kJ from initial capacity of 60kJ

- 7) Extreme long life of light-chips:

- a. 20.000 h @ 240Lm (equal to 9 years @ 6h/day)
- b. 40.000 h @ 120Lm (equal to 18 years @ 6h/day))

Note : Light-chips will not be dead after 9 years but will be reduced in output by 25%; down to 180 Lm from initial light output of 240 Lm

- 8) Can be charged with very small solar panel of 50kJ/d (3Wp)

- a. @ 240 Lm > 50 kJ / 8kJ/h = 6 h of light per day
- b. @ 120 Lm > 50 kJ / 4kJ/h = 12 h of light per day

9) System can be expanded from 1 lamp to 10 or 100 lamps; simply by adding more panels and more lamps and connecting them together.

10) System can be added by Sundaya LCD color TV with same build in energy storage technology.

11) Automatic regulation of energy between devices that are connected to same PV panel (or array of PV-panels); Those devices that are used the most will get most energy delivered the next day when sun starts harvesting new energy again from the sun.

12) Can charge from any 12VDC source or any 32-36 Cell PV solar panel with maximum Open Circuit Voltage of 25VDC (max).

