



Accessibility

- Portable system(12kg); if necessary can be fixed

Setting-Up

- User friendly, no prior installation required;
- Allows to use several electrical devices at the same time;
- Extremely robust and shock resistant ;
- Easy storage in 5 minutes (limited risks of robbery or depredation);

Quality

- SwissMade

Batteries

- Light, high power battery, built in the system (LiPoFe);
- Lifetime up to 2000 full charge / discharge cycles;
- Fully protected against, water, dust and shocks;
- Can be recycled (ecological solution);
- No maintenance during several years;
- Can be stored during several months without discharging.

Eclairage

- Lighting system, built in the system;
- Unbreakable, resistant to dust and waterproof;
- Lifetime of the LED over 50'000h;
- The lighting of a LED lamp of 3W is equal to the one of a standard 60W lamp.

- Fix system, heavy structure(from 30 to 60kg)

- Shall be installed by qualified personnel;
- No connectors and cables available;
- Not protected against shocks, dust and water;
- Not designed to be disassembled;

- Very often assembled in low cost countries.

- Batteries very often with led and lead acid gel (dangerous for the environment and humans);
- Limited lifetime(about 300-500 cycles);
- Shall be recharged every 6 months;
- Full discharge has to be avoided;
- The battery weighs between10 and 30kg.

- Usually the lighting is not included in the package, but when it is:
- The consumption of the lighting system is 4 times higher than the LED;
- The systems are fragile, breakable, water and dust resistant;
- The lifetime of the lamp is very limited.

Solar Panel

- The amorphous technology is perfectly suited for variable weather conditions and high temperatures. The panel does not need to be oriented towards the sun;
- The panels are very light(1,2kg/m²);
- Best ecological product available on the market;
- Do not contain any toxic or rare elements;
- The energy return is of 6 months. Swiss Made manufacturing.
- Mono- or poly-crystalline panel;
- Must be perfectly oriented towards the sun ;
- The panel must be ventilated, as from 25°C their productivity decreases;
- Their weight is between 20 to 50kg/m²;
- Not very ecological product : they contain much more rough materials, rare and toxic elements;
- Very often assembled in low cost countries.

Durée de vie

- Optimized lifetime for each component;
- Unbreakable, dust and waterproof;
- Lifetime up to 2000 full charge / discharge cycles;
- The panels have an operational warranty of 20 years ;
- The electronic components are tropicalised and built in the system.
- Only the panels have an operational warranty (20 years);
- No warranty for shock, dust or water resistance;
- Spare parts and qualified staff for the assembly must be foreseen, which implies additional indirect costs.

Last but not least

- Most ecological system on the market: the batteries don't outgas and don't react to oxygen (no risk of explosion);
- Plastic without chlorine, or fluorine comply with military standards;
- Waterproof system complies with military standards;
- ILAND allows also to pump and to filter water, to charge and feed mobile devices, to produce light for free health centres in the bush, etc.
- Very often assembled in low cost countries;
- The materials are very fragile and not waterproof;
- The manufacturing does not respect ecological standards;
- The set-up requires qualified staff
- No option to easily plug lamps or other devices.

4 times less energy with the same functions

- 1 Amorphous solar panel of 35W
- 1 Battery 12V, 16Ah
- 1 Regulator 12V-16A
- 1 Converter 12VDC-220VAC, 75W
- 1 Television set of 21" 20W, 6 hours/day.
- 3 LED lamps 3W, 6 hours/day
- 1 Radio 10W, 8 hours/day
- 1 High quality DVD player NC 9W
- 1 Solar panel 125W
- 1 Battery 12V-150Ah
- 1 Regulator 12V-15A
- 1 Converter 12VDC-220VAC, 75W
- 1 Television set between 21" and 36" 50W
- 3 Lamps C.F.L. 11W, 6 hours/day
- 1 Radio 20W, 8 hours/day
- 1 DVD player 30W

= 200 à 250W

= 600 à 900W

The best market price

▪ 1 Amorphous solar panel	including	▪ 1 Solar panel	500 euros
▪ 1 Battery	including	▪ 1 Battery	250 euros
▪ 1 Regulator	including	▪ 1 Régulator	80 euros
▪ 1 Converter	100 euros	▪ 1 Converter	100 euros
▪ 1 Télévision + DVD	250 euros	▪ 1 Television	500 euros
▪ 3 LED Lamps	including	▪ 3 Lamps	150 euros
▪ 1 Radio	200 euros	▪ 1 Radio	200 euros
▪ 1 DVD player	-	▪ 1 DVD player	150 euros

Total 1880 euros**Total 1930 euros****Additional costs to foresee**

▪ Assembly and engineering	none	▪ Assembly and engineering	300 euros
▪ Setting-up (mast, instal.)	none	▪ Setting-up (mast, instal.)	450 euros

Real total cost for installation 1880 euros**Real total cost for installation 2680 euros****Maintenance none****Maintenance (1x year : lamps, batteries, etc.)
= 550 euros**