

Specification Sheet & User Manual



Portable self-contained solar power device

chalet – marine & yachting - 4x4 - cabins - camping – rural homes - expeditions - bungalows - caravan – island life – hotel parks - garden - beach - terrace - mountain – rescue – humanitarian – surveillance – field irrigation ...

Caution !

This user's manual contains information regarding safety, installation, performance, maintenance and technical aspects which you should be familiar with before using your 'iLAND everywhere' solar power kit. Please read it carefully !

SPECIFICATION SHEET

Battery : LiFePO4

- Maximum voltage : 14.6V
- Operating voltage : 12.8V
- Operating capacity : 15Ah @25°C @ 0.2C
- Operating current : 1600 mA
- Peak current : 2500 mA

Lamps : LED

- Maximum voltage : 15V
- Minimal voltage : 10.5V
- Operating voltage : 12.8V
- Operating current : 350mA
- Operating power : 4.4W
- Lumens = 126 to 312 lm @25°C @350mA
- T° Kelvin = 3500K

Solar panel : VHF technologies Flexcell

- Power : 27 W
- Operating voltage (Vmpp) : 15 V *
- Operating current (Impp) : 1800 mA *
- Open circuit voltage (Voc) : 23 V *
- Short circuit current (Isc) : 2400 mA *
- Dimensions : 642 mm x 1310 mm
- Active part : 572 mm x 1220 mm
- Thickness : 1.2 mm
- Operating range temperature : -20°C to +60°C
- Weight : 1500 g

* measured at Standard Testing Conditions (STC), 1000W/m², AM 1.5, 25°C

CE and UL approval

Operating range temperatures : -20°C to +60°C

Caution : The photovoltaic module produces electricity when exposed to sunlight. The voltage from a single module is not considered as hazardous.

BASIC CONTENTS :

A two-part tube

1. **Container** : solar panel, case with 4 LED lamps
2. **Battery pack** : connector for 8 LED lamps, 2 USB, 1 universal socket (cigarette-lighter type).

OPTIONS

- Additional LED lamps
- Water pump (2 types)
- Extension leads for LED lamps and solar panel.
- Adaptor for cigarette-lighter socket
- Brackets and ground-fixing wire.

DO'S AND DON'TS CONCERNING THE TUBE AND BATTERY

DO NOT drop or throw the tube, lamps, pump or solar panel on the ground. ALWAYS install the tube, lamps, pump and solar panel in a suitable, steady place.

DO NOT leave the tube, lamps, pump and solar panel near a source of heat or cold which could alter or deform the plastic polymers and the batteries.

DO NOT scratch or cut the tube, lamps, pump or solar panel with any sharp objects.

DO NOT sit or stand on the tube, lamps, pump or solar panel.

DO NOT immerse the tube, lamps, pump and solar panel in water.

DO NOT expose the connectors to bad weather conditions or ambient environment.

DO NOT plug non-compliant or non-adapted objects or electrical elements into the connectors.

DO NOT use the pump unless it is totally immersed in water.

DO NOT expose the LED lamps to bad weather conditions.

ALWAYS close the lid of the tube during transportation or when using the solar panel.

ALWAYS interlock the upper part with the battery part during transport or when using the solar panel.

ALWAYS protect the connector part from bad weather conditions and the ambient environment by ALWAYS interlocking the upper part with the battery part.

ALWAYS clean the tube, lamps, pump, solar panel and connectors after use.

ALWAYS use USB1 and USB2 connectors with adapted devices and NEVER expose the connectors to external electrical sources.

ALWAYS use the cigarette-lighter universal connector with adapted devices and NEVER expose this connector to external electrical sources.

ALWAYS use the lamp connectors solely with 'iLAND everywhere' lamps and NEVER expose these connectors to external electrical sources.

ALWAYS charge 'iLAND everywhere' with the solar panel from the tube, NEVER try to charge the 'iLAND everywhere' battery with other solar panels than those included in the 'iLAND everywhere' kit or with external electrical sources.

RULES TO RESPECT CONCERNING THE FLEXIBLE SOLAR PANEL

DO NOT fold or crease the flexible solar panel. Any wrinkle on the solar module may cause a short circuit, impair its performance or even destroy the product.

Only HANDLE the flexible solar panel using the textile parts.

DO NOT scratch or mark the flexible solar panel with a sharp object.

DO NOT sit or stand on the flexible solar panel.

DO NOT immerse the flexible solar panel in water.

ALWAYS roll the solar panel so that its cell side is facing outwards (purple side). Follow correct rolling procedure described opposite.

ALWAYS make connections in a well-ventilated area free from flammable gases or vapours.

OPERATING INSTRUCTIONS

1. Choose a clean, flat location. Mount iLAND (horizontally) on a steady surface, on its blades (fig 1).
2. Unscrew the central ring to separate the battery pack from the tube (fig.2)
3. Remove the solar panel and its case from the tube and unroll the solar panel (fig.3).

4. Use the corner grommets to properly fasten the flexible solar panel to the ground with ring-pins (fig.4). The solar panel must be secured to prevent vibrations and flapping in the wind. In strong wind, fix the solar panel to the ground with U-pins.
5. Mount the solar panel with its cell side (purple side) facing towards the sun in a location that will receive direct sunlight throughout the day (fig.5). Optimal charging performance is obtained when sunlight falls perpendicular to the flexible solar panel.
6. Connect the solar panel lead to the battery to charge it (fig.6)
7. Battery charging time varies between 6 and 10 hours. This depends on the light intensity and positioning of the solar panel in relation to the sun. See to it that the panel is always clean. Wipe the surface with a soft cloth if necessary.
8. Once the battery is charged, remove the plug from the battery, remove the rings and carefully roll up the solar panel round its case. Put it all away in the tube in order to protect the panel from dust and external damage.



LIGHTING

1. Open the case. Remove the lamp from its niche. Unroll the lead provided and plug the connector into the lamp. Then plug the other end of the lead into the battery (fig.7) Proceed in the same way for each additional lamp. You may connect up to eight lamps if necessary.
2. To disconnect the lamp, simply remove the connector from the battery. Also remove the connector from the lamp and carefully replace everything in the case.

RECHARGING ELECTRONIC/ELECTRIC DEVICES

Plug the device into the battery directly using a charger. The battery has several sockets (2 USB, 1 universal cigarette-lighter socket).

The special lead adapted to your devices linking your device to the battery is not supplied. Order the lead with charger specially adapted to your device from your suppliers (mobile phone, computer, GPS, etc.). The standard used is the automobile industry.

Use a universal adaptor if you do not have a connector adapted to the 'iLAND everywhere' connector.

FAQS

How do I know if the panel is functioning correctly ?

You can check that the panel is charging by pressing the green knob on the connector side..

Can the flexible solar panel drain my battery overnight?

No. A built-in 'anti-return' diode prevents the battery from going flat.

Can I leave it outside permanently?

Yes, but ensure that it is correctly installed and secured to avoid any damage caused by the wind and that it is sheltered from bad weather conditions. The connectors must be clean at all times and securely plugged in. Beware that your 'iLAND everywhere' is not stolen while you are away.

What happens if the device gets wet?

The entire tube is weatherproof, but it must not be left in the rain for an extended period of time.

What if the product is wet?

Wipe it with a dry cloth. Avoid all direct contact with water.

How do I clean and maintain it?

The solar panel and tube do not require maintenance by a specialist. Wipe the tube, its components and the solar panel's surface with a damp cloth or a mild soapy solution after each use. Do not use abrasive cleaners or solvents which might damage the elements of the 'iLAND everywhere' product.

Warranty, limitation of liability

iLAND green technologies SA (Route de la Gare 36, 2012 Auvernier, Suisse) makes no warranties, express or implied, including (but not limited to) any condition, warranty or term as to the satisfactory quality or fitness for purpose of the Product, except the following warranty : iLAND green technologies SA grants the original Purchaser of this Product a limited two (2) year warranty on the electrical performance of the solar panel, the battery and the lamps and a warranty of two (2) years on the defects of materials and workmanship : we guarantee that this device will produce a minimum of 70% of its rated electrical performance for a period of two (2) years from the purchase date, and that this Product is free of defects of materials and workmanship for a period of two (2) years from the purchase date.

Upon purchase or receipt, Purchaser shall inspect and/or test the quality of the delivered Product as soon as it is customary in accordance with usual business practice. Purchaser shall notify iLAND green technologies or the relevant retailer immediately if an alleged failure to conform to technical specifications of the Product is discovered.

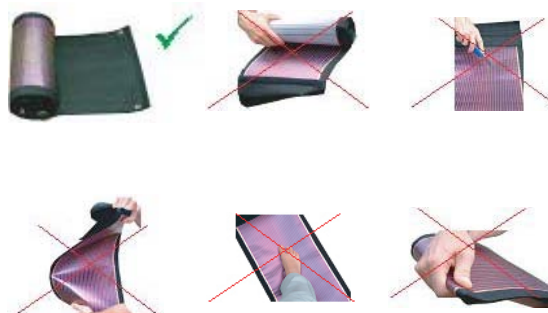
If the Purchaser fails to examine the quality of the Product or to give notice according to this provision, the Product is deemed to have been accepted and any claim of breach of warranty with respect to such Product shall be waived. Operating instructions are communicated to the Purchaser together with any purchased Product.

This warranty does not cover any Product which has been damaged by acts of God, misuse, neglect or improper installation or application, or negligence in use, storage, transportation or handling, or following repair by anyone other than iLAND green technologies or iLAND green technologies' authorized representative.

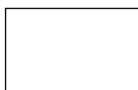
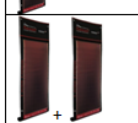
iLAND green technologies' maximum responsibility under this warranty shall in any case not exceed the purchase price of the Product. iLAND green technologies shall in any event not be responsible for any damage to persons or to property, or for any loss of profit, expense, or any other incidental, consequential or special damages arising out of the use of, or inability to use, the Product.

Products returned under this warranty to iLAND green technologies or to iLAND green technologies' authorized distributor, will be repaired or replaced free of charge, or refunded at purchase price, at the option of iLAND green technologies. This warranty does not cover any transportation costs for return of module or for reshipment of any repaired or replaced module, or costs associated with installation, removal, reinstallation or adaptation, modification of the original Product. This warranty is only applicable if the returned Product is accompanied by the original invoice (purchase date and name of retailer must be indicated). iLAND green technologies will accept no return without prior authorization.

Any other form of warranty given by the retailer is entirely his own responsibility and no person is authorized to change the terms of this warranty of the manufacturer. This warranty does not affect the Purchaser's statutory rights under governing national laws as to consumers' rights. In case of any translation of this warranty, the English version shall be attached and shall prevail in the event of any inconsistency.



Charge

	
	6 – 8 h
	3 – 6 h

Autonomy

			
	3 – 7 h	6 – 14 h	12 – 28 h
	5 – 8 h	10 – 16 h	16 – 32 h
	70 h	140 h	280 h
	24 h	48 h	96 h
	11 h	22 h	44 h
	3 – 8 h	6 – 16 h	12 – 30 h
	10 – 18 h	15 – 24 h	20 – 48 h
	7 – 10 h	14 – 24 h	24 – 60 h
	15 – 20 h	20 – 30 h	30 – 40 h
	2 – 5 h	4 – 10 h	8 – 22 h

©iLAND green technologies 2009

iLAND est une marque déposée, tous les droits sont réservés à iLAND green technologies SA, Rte de la Gare 36 à CH-2012 Auvernier.
iLAND ewerywhere appartient à iLAND green technologies SA, Rte de la Gare 36 à CH-2012 Auvernier à fait l'objet d'un dépôt de brevet (patent pending)

Correspondance :

iLAND green technologies SA | Parc scientifique NEODE | Rue Jaquet Droz 1 – CH 2000 Neuchâtel |