

## Standard Products Catalogue ICRC/IFRC

### Sustainable information sheet

#### Product: Solar Lamp

The below table is based on the Sustainable Criteria list available at:

<https://itemscatalogue.redcross.int/green--2/sustainable-procurement--25/sustainable-criteria--112/information-sheet-sustainable-procurement--SUSTAINABLE.aspx>

Environmental aspects	Achievements
Use long lasting products and materials, to minimize the replacement and allow the second life.	Shockproof and rain proof casing for a longer lifespan. Stock management with reduced storage time to avoid battery degradation during shelf life. Controlled battery charge, to guaranty that the battery remains in good condition, is being implemented in the main warehouses. Rechargeable lithium-ion batteries instead of lead-acid batteries for increased durability, more than 500 charge cycle. Protected with a specific circuit to avoid overcharging and deep discharge that would reduce the lifespan of the battery. Automatic turn off for longer lifespan.
Recycling the raw material of the product	Can be collected and recycled as electronics.
Using recycled or re-used materials to make the product	Required percentage of recycled plastic in the plastic casing.
Reduced weight and volume compared to equivalent preceding products	Preceding product needed the supply of disposable batteries, and later lead-acid rechargeable batteries, replaced by lithium-ion rechargeable long life batteries.
Seek equipment that is energy efficient	Low consumption LED lights. Long life rechargeable batteries. Automatic turnoff for energy saving. Testing of light capacity to ensure required quality. Tests are described in the specification.
Use materials with reduced effect on environment due to their intrinsic nature	Lithium-ion batteries instead of lead-acid batteries No more disposable batteries.
No (or reduced) polluting with minimum use of toxic chemicals, CFCs ozone and other pollutants	Lithium-ion batteries are less toxic than lead-acid batteries

100% biodegradable material when biodegradability in the environment is foreseen	Not to be discarded in the environment, litter or landfilled. Indication printed on the box that it should not be littered, and should be recycled.
Use of materials and products that can have a second life in a different usage	Solar panel can be used as electric power source, at the end of the lamp lifespan. The lamp can be used without the solar panel, with direct charging from the main or other sources. All is based on micro USB connector (universal).
Use equipment that have a high rate of reparability when applicable	Openable with standard tools, reparable in small workshops. Batteries can be replaced.
When products are made up of several types of material, particularly plastics and metals, the ease of disassembly is taken into consideration. Particularly relevant for electronic and electrical products.	Yes in specialized recycling plants. The product can be entirely disassembled in low tech countries. The circuit is not covered with resin, components can be removed for reuse or recycling.
Minimum packaging. Reducing the packaging to the minimum although enabling the product to survive poor handling. Optimize palletization and TC loading.	No plastic bags in the carton box. Only cardboard and paper in the pack.
Manage sourcing in a way that reduces the environmental impact and facilitates the application of social standards Favor manufacturing processes that facilitate pollution control. Proper waste management in the production site	The components are produced by large industrial plants where international regulations on pollution should apply and social standards are up to the legal requirements or above. Audited by our services. The sourcing process includes quality evaluation through life tests, linked to durability and efficiency, to ensure the longest possible lifespan, thus the lowest environmental impact. The raw material is produced by large industrial plants where international regulations on pollution should apply

<b>Social aspects</b>	
Ethical standards	
The ICRC/IFRC code of conduct for purchasing strives to ensure the ICRC highest ethical standards and ethical standards from our suppliers	The lead buyers are applying the Codes of Conduct and Ethics, ensuring the

too. Each person undertaking any purchasing activity in the ICRC signs this document.	ethical standards are respected along the supply chain.  Audited by internal services.
The ICRC/IFRC Ethical Purchasing policy is being implemented. Criteria on working conditions, hygiene and security, safety, child labour, and environmental concerns are assessed in the manufacturing units. Position on Ethical Policy for Purchasing (icrc.org)	The manufacturing plants have been validated, ensuring the ethical standards are respected.  Manufacturers are encouraged to implemented progress actions, following recommended international standards.  Audited by our services.
Social impact: labour and deontological practices, Health and safety, hardship working conditions, etc.	The manufacturing plants have been validated, ensuring the social standards are respected. Audited by our services.

<b>Economic impact, value for money</b>	
Maximum durability, reparability, reusability, recyclability and upgradeability:	Long lifespan lamp, repairable and recyclable. Reusable separately for the solar panel and the lamp.
Use long lasting products and materials, to minimize the replacement and allow the second life.	Rechargeable more than 500 times.
Reparability is also considered during the design of the product.	Repairable, possible to replace the batteries.
Seek products that enable updated and improve performance.	With changing batteries.
ICRC/IFRC policy to prevent fraud and corruption for all staff members and external partners	The anti-fraud policy guaranties the proper application of the product specification through a well-controlled purchasing process, a transparent and reliable quality control, and tight supervision of the inspection companies in particular during factory visits.  Audited by internal services.