



Solar Powered Lighting

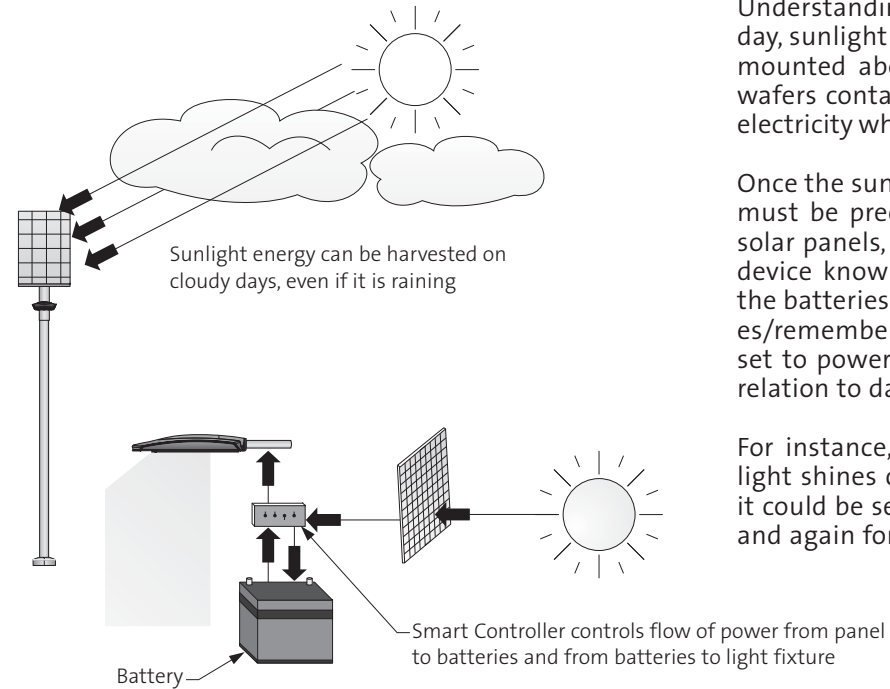
Application Guide

se'lux
Light. Ideas. Systems.



How does solar power work?

SELUX Sonne™, SonneLiter, and Discera solar-powered luminaires operate solely on energy collected from the sun. They do not use power from electric lines, but by converting sunlight to direct current (DC) electricity.



Understanding how it works is easy. Through its course of the day, sunlight rays strike upon one or more solar panels that are mounted above the light fixture. The rays stimulate silicon wafers contained within the solar panels that in turn output electricity which is stored in sealed gel batteries for later usage.

Once the sun's energy has been captured, its flow and storage must be precisely managed. Electrical current between the solar panels, batteries, and the lamp is regulated by a built in device known as the *Smart Controller*, which detects when the batteries are fully charged (to prevent overcharging), senses/remembers when nightfall and sunrise occur, and it may be set to power the lamp for user-adjustable periods of time in relation to dawn and dusk.

For instance, the Smart Controller could be set so that the light shines continuously from dusk to dawn, or alternatively it could be set to turn the lamp on for three hours after dusk, and again for one hour before dawn.

Why use solar lighting?

Reduced Installation Costs - Installation of SELUX photovoltaic lighting systems require no wiring of any kind. Once the fixture is up on its anchor bolts, installation is complete. The savings can be enormous for off-grid locations due to the elimination of the need to bring in outside power.

Incentives/Tax Breaks - Recently much legislation has been passed promoting projects that utilize renewable energy sources. The Energy Policy Act of 2005 includes incentives to lessen U.S. dependency on foreign oil. Solar lighting improvements may be eligible for grants, low-cost loans, or tax credits depending on the location and nature of the project. SELUX solar luminaires offer a perfect parking lot lighting solution to gain points for LEED certification. Besides needing no energy, these luminaires are IDA certified "Full Cutoff". Schools, municipalities, commercial and residential buildings, etc.— credits or funds may be available from government agencies or other organizations for doing such lighting jobs with renewable energy fixtures.

No Electric Bill - Non-metered, no cost energy provided by the sun (even on cloudy days).

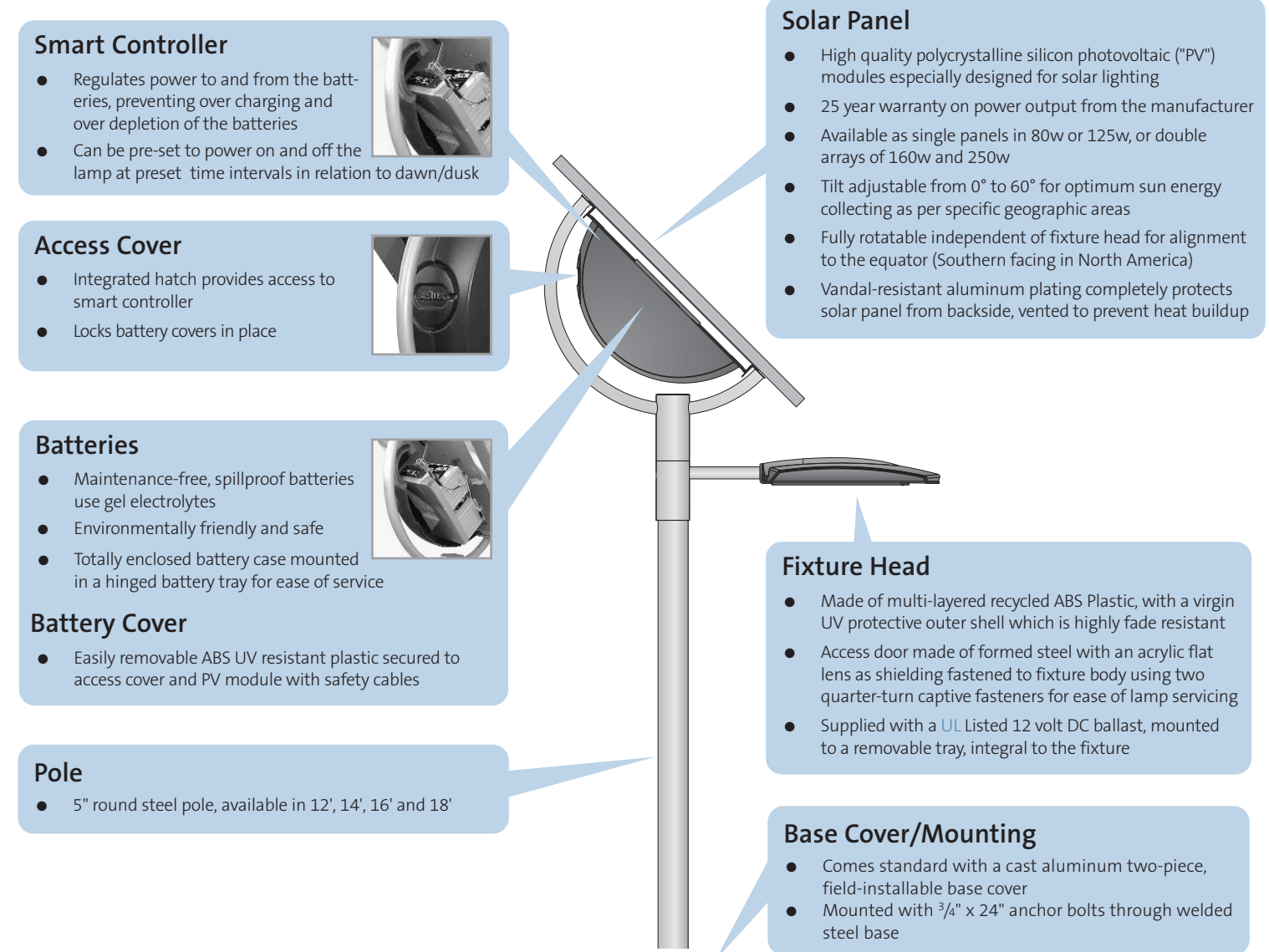
"Green Energy" - Light is produced in a non-polluting, environmentally responsible fashion.

Features

- 3 Architecturally designed luminaire designs
- Compact, self-contained system
- High quality photovoltaic panel designed especially for solar lighting
- Sonne available with 32w CF lamping
- SonneLiter & Discera available with up to 39w T6 MH lamps
- Up to 3 available distribution patterns
- "Dark Sky Friendly" Full Cutoff optics from a renewable-energy powered fixture
- Easy access UV stabilized ABS housing
- Sealed-gel, long life, recyclable, solar grade batteries carry a 5 year warranty; solar panels carry a 25 year warranty
- Flexible hours of operation enables fixture configuration to project needs and location
- Suitable for hurricane prone areas and high altitude mountainous zones
- Easy maintenance

Solar Technology

SELUX employs a number of innovative solar technologies for its line of solar-powered fixtures (SDS shown).



Installations might include any of the scenarios depicted below as well as in National Parks, remote parking lots, skiing areas, country homes, golf courses, boat landings, hiking trails, rest stops, disaster areas- the list goes on and on.



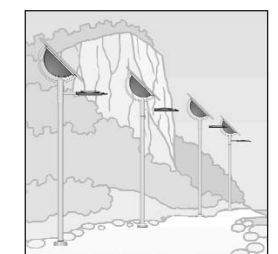
Landscaped Areas



Remote Historical Sites



Wilderness Retreats



Beach Areas