

6V photovoltaic power converter

Version: 3.1 17-03-01

Model: LSCELL8-6V

Features:

- Up to 6 volts output
- Up to 50mA at 5V
- Up to 300mW electrical power
- Optimized for 808nm laser source
- Complete electrical isolation



Applications:

- Power field, such as optically powered current transducer for electrical power transmission
- Radio field, such as implantable medical microsystem, miniature ants, passive optical network monitoring system
- Industrial sensor field, such as wind turbine mechanical monitoring system, optical fiber measurement.
- Remote antenna lightning isolation
- Medicine field, such as nuclear magnetic resonance instrument
- Aviation field, such as wing fuel tank
- National defence field.

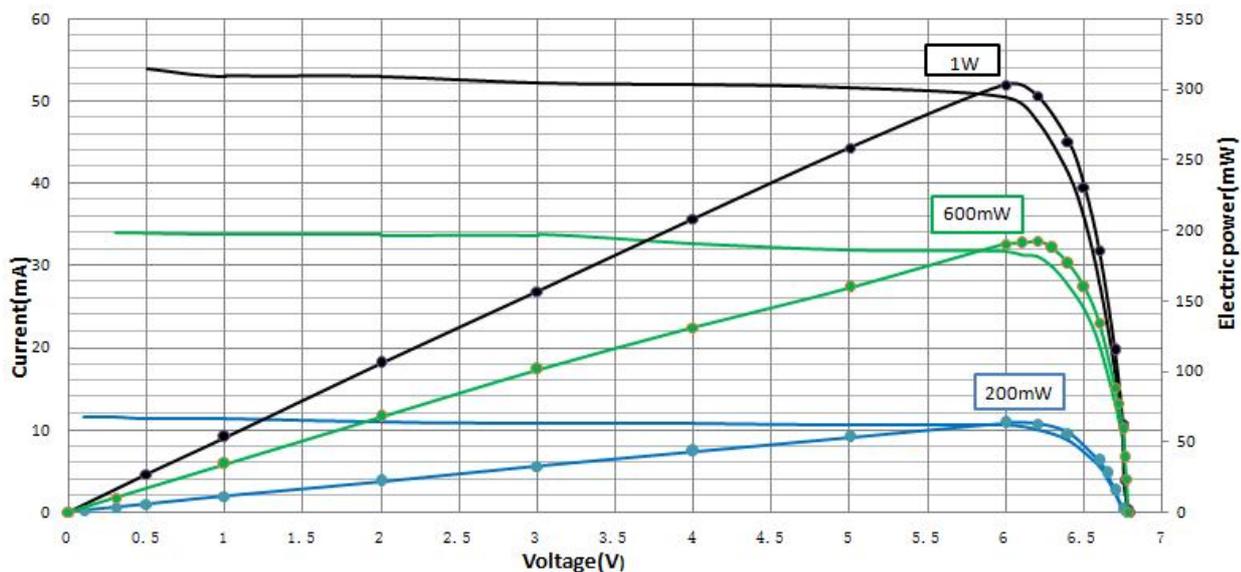
Description:

The LSCELL8-6V is photoelectric energy conversion module is a device that converts laser energy into electrical energy, through the 62.5um or 105um multimode fiber connected to the laser transmitter module, can work in the region is not suitable for weak direct power supply, the long-distance, high-efficiency power transmission to meet the remote weak power supply equipment and control signals to the demand.

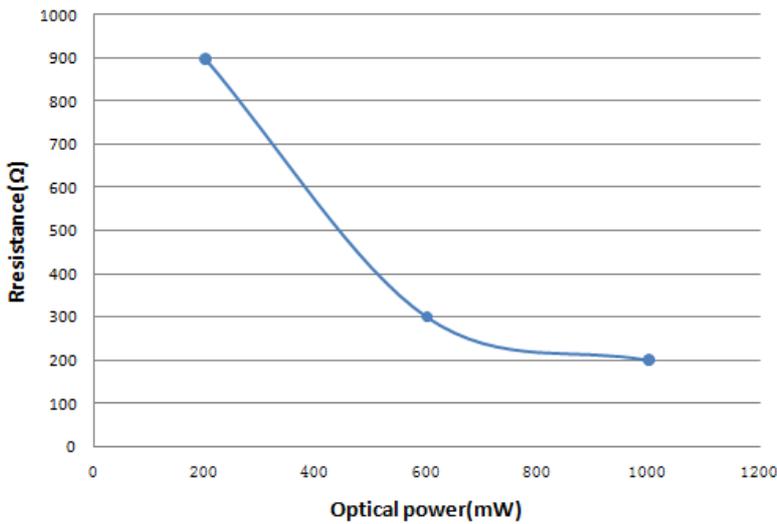
Designed to convert 800-850nm light into electrical power up to 6 Volts, with output power from a few mW to 0.3W, the LSCELL8-6V is available with ST, FC or SC changeable connectors.

The typical Responsivity curve

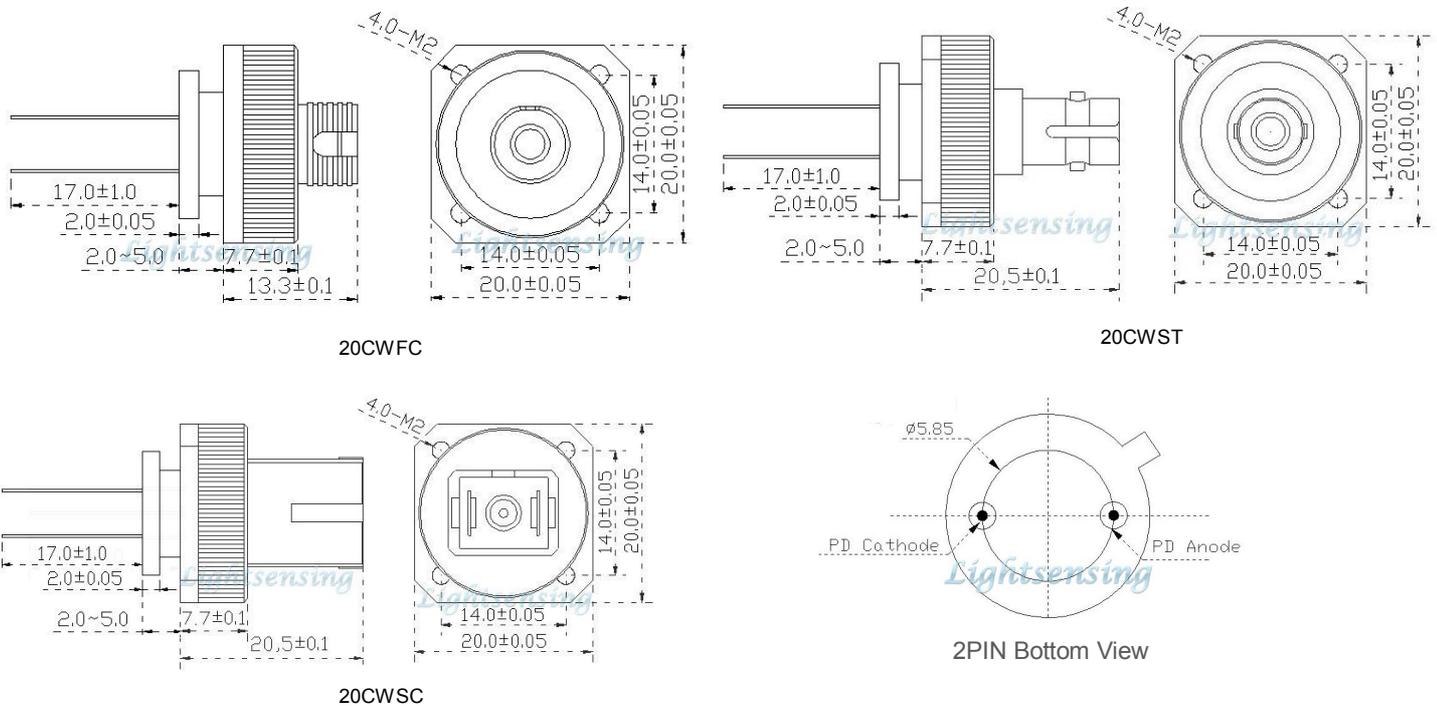
Input light power vs output voltage vs output current vs output electrical power



Input light power vs optimum load resistance



TO package and Lead



Order information

LSCCELL8-6V-X

X=20CWFC	TO-5 Can with 20mm replaceable receptacle with FC connector
X=20CWSC	TO-5 Can with 20mm replaceable receptacle with SC connector
X=20CWST	TO-5 Can with 20mm replaceable receptacle with ST connector

The Cautions

- 1: The above product specifications are subject to change without notice.
- 2: The suitable ESD protecting measures are recommend in storage, transporting and using.
- 3: The fiber bending radius no less than 20mm for avoiding fiber damaged ,Be sure the fiber coupling facet is clean before connecting it to opto-circuit.