

6V photovoltaic power converter

Model: LSPPC8-6V

V4.1 2021-01-01

1.Features

- Features:
- Up to 6 volts output
- Up to 88mA at 6V
- Up to 500mW electrical power when input 1W light power
- Optimized for 808nm and 830nm laser source
- Complete electrical isolation
- Hermetic TO-can with receptacle

2.Applications

- Power field, such as optically powered current transducer for electrical power transmission
- Radio field, such as implantable medical micro-system, 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.

3.Picture

						
PJKFC						

4.Description:

The LSPPC8-6V is photoelectric energy conversion module is a device that converts laser energy into electrical energy, through the 62.5um or 105um multi-mode fiber connected to the laser transmitter module, can work in the region which 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.

The LSPPC8-6V convert 800-850nm light into electrical power up to 6 Volts, with output power up to 500mW or higher, it's typical input light power is 1W. The LSPPC8-6V is available with FC or ST changeable connectors.

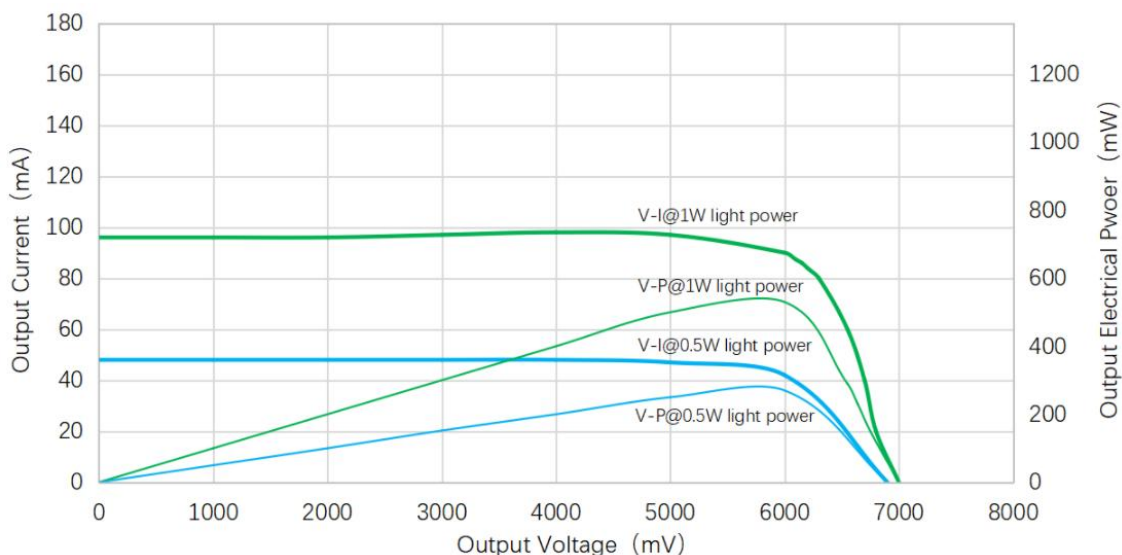
5.Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+65	°C
Storage temperature	Tstg	-40~+85	°C
Input light power	Pin	1.5	W
Soldering temperature(time)	Ts (10s)	260	°C

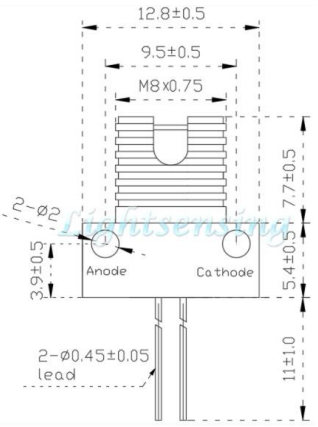
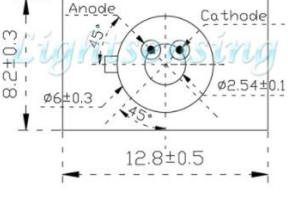
Note: You must add radiator to the photovoltaic power converter when you use it, especially use it in the limit condition, otherwise maybe the photovoltaic power converter will burn down.

6.The typical Responsivity curve

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



7. The package Dimensions and Lead

 <p>Side View</p>	 <p>Bottom View</p>		
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Note: For more information on dimension, please contact us

8. Order information

Receptacle product order information:LS=Lightsensing				
LS	PPC8	-6V	-2P	-PJKFC
		Output voltage	PIN	Receptacle type
	PPC= photovoltaic power converter	6V=6 voltage	2P=2 PIN Other	PJKFC=receptacle with FC connector and 2 mounting holes by plane mount PJKST=receptacle with ST connector and 2 mounting holes by plane mount

9. 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.