

12 V Photovoltaic Power Converter

PPC-12E

**Key Features**

- Up to 45 mA at 11 V
- Up to 500 mW electrical power
- Up to 12 volts output
- Optimized for 810 nm source
- Complete electrical isolation

Applications

- Optically powered current transducer for electrical power transmission
- Remote optically powered sensors and transducers
- Compatible with 62.5 μm short-haul “legacy” fiber
- Low cost and efficient 808 or 830 nm laser diode source
- Remote antenna lightning isolation

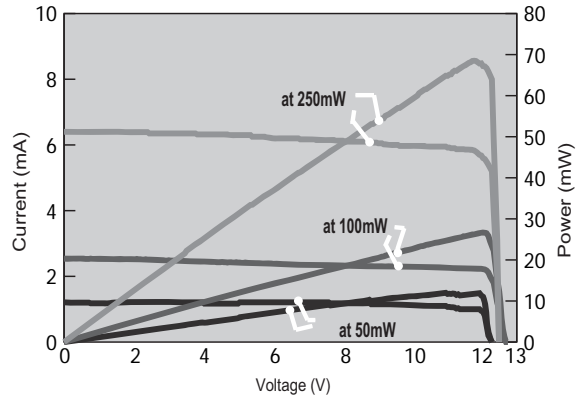
The PPC-12E is a photovoltaic power converter optimized for maximum efficiency in the range of 790 – 850 nm illumination. Source optical energy is delivered via multimode fiber, compatible with installed short haul communication systems. Reliable and low cost laser diodes are readily available as sources.

Total electrical isolation, and compatibility of operation in high electrical field or noisy electrical environments are key capabilities of the PPC-12E. Remote power for sensors, transducers and data communications equipment are typical applications.

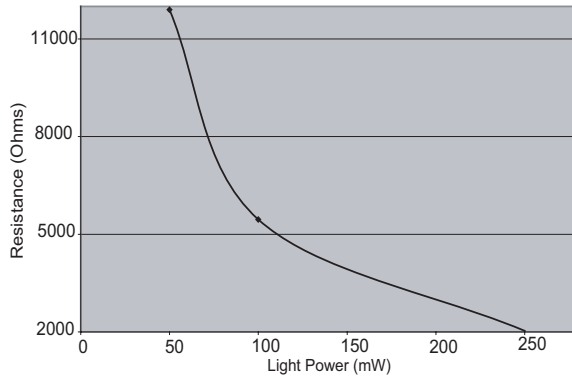
Designed to convert 790 – 850 nm light into electrical power up to 12 volts, with output power from a few mW to 0.5 W, the PPC-12E is available with ST or FC connectors. Pigtail packages including ceramic (CMPT) pigtail are available.

2

PPC-12E at 3 Light Input Levels



Optimum Load Resistance for PPC-12E



FC Housing

(Pin orientation may vary. Specifications in mm unless otherwise noted. All dimensions tolerance $\pm 250 \mu$)

