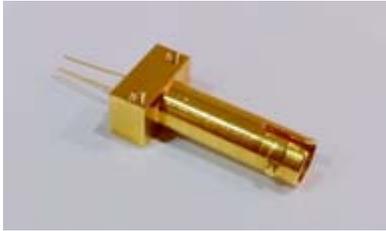


YCH-L240 6V Photovoltaic Power Converter Datasheet



Key Features:

- Optimized for 915 nm through 980 nm laser sources
- Low cost, high reliability laser diode wavelengths
- Conversion efficiency at 1W input: 24%
- Up to 7 volts output; 6 volts output with 1W input
- Max electrical output $\sim \frac{1}{2}$ watt

Product Description: MH GoPower offers the only photovoltaic power converter (PPC) product line capable of delivering a wide range of power and voltage outputs. Power output levels range from tens of milliwatts to over 3 watts, while output voltage levels are possible from 4 volts to over 30 volts. MHGP's PPC product line operates most efficiently with wavelengths in the range of 900 nm to 1,000 nm.

The MHGP YCH-L240-06 is MHGP's low power PPC offering for applications requiring power up to $\frac{1}{2}$ watt. Device efficiencies of greater than 25% are achievable with appropriate heat sinking.

Target applications include powering remote and embedded sensors, current sensors, optical network components, as well as other applications requiring voltage isolation between the power source, and embedded electronics in high voltage or high noise environments.

Availability: ST model in stock; FC available on request.

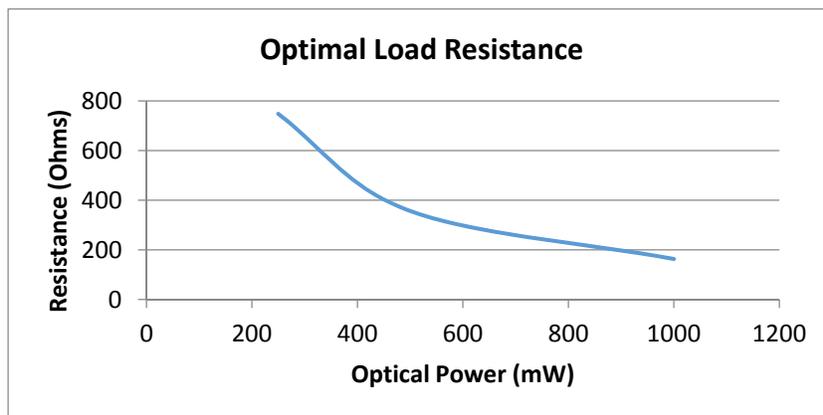
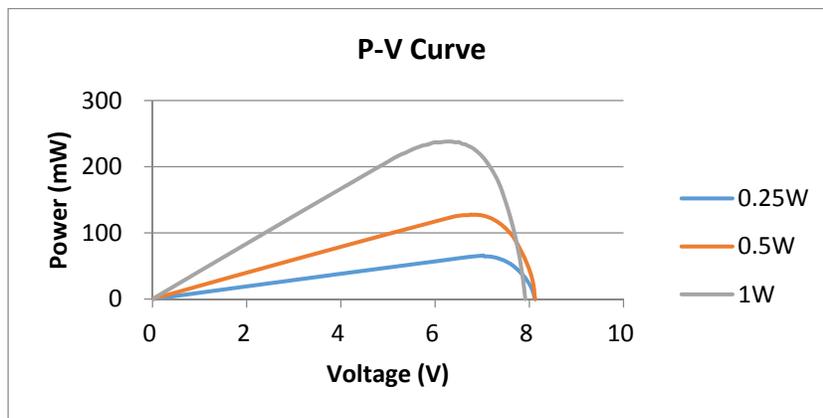
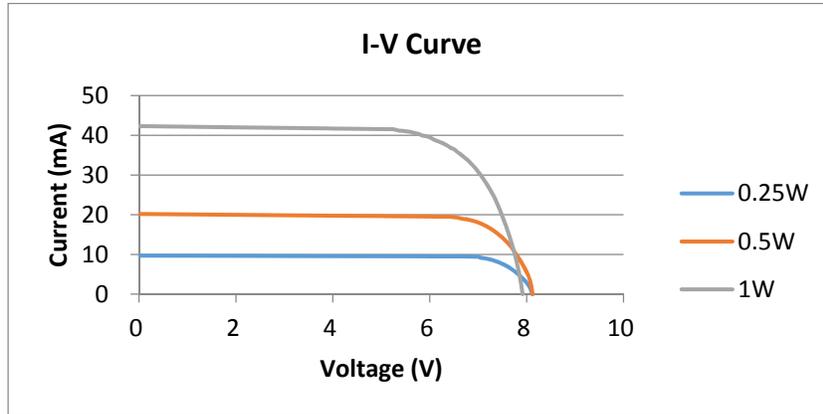
Electrical Characteristics *

Optical Power (mW)	250	500	1000
Pmax (mW)	65.9	127.8	238.1
Vmax (V)	7.0	6.8	6.2
I _{max} (mA)	9.4	18.9	38.1
Efficiency (%)	26.4%	25.6%	23.8%

* Typical converter performance

* Tested with 975 nm wavelength laser

Electrical Characteristics (Continued)



Mechanical Dimensions

