

# PHOTON ENERGY SYSTEMS

## Blue Chip V603 module

### Photon Energy Systems Photovoltaic Modules

- ✓ Ultrathin cells utilizes 5X less silicon than conventional solar cells
- ✓ All rear contact cells for improved efficiency and appearance – no front side interconnect lines.
- ✓ Flexible

### Performance

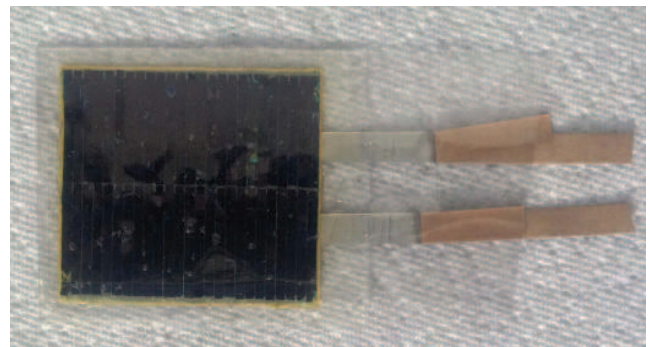
BCV603

Rated power	0.3W
Module efficiency	16%
Nominal voltage	5V

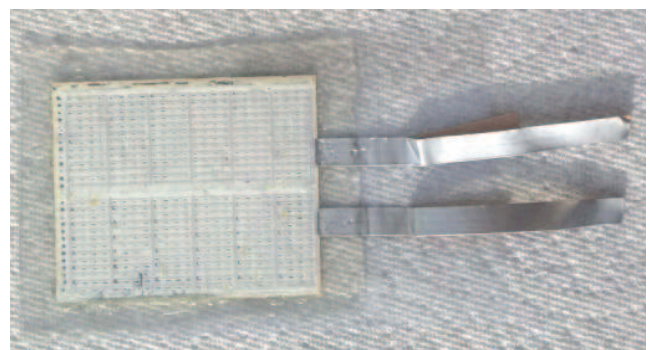
### Configuration

Microtiles per row	24
Microtile rows	2
Microtiles total	48
Microtiles in parallel group	4
Microtile groups in series	12

### Blue Chip V603 module

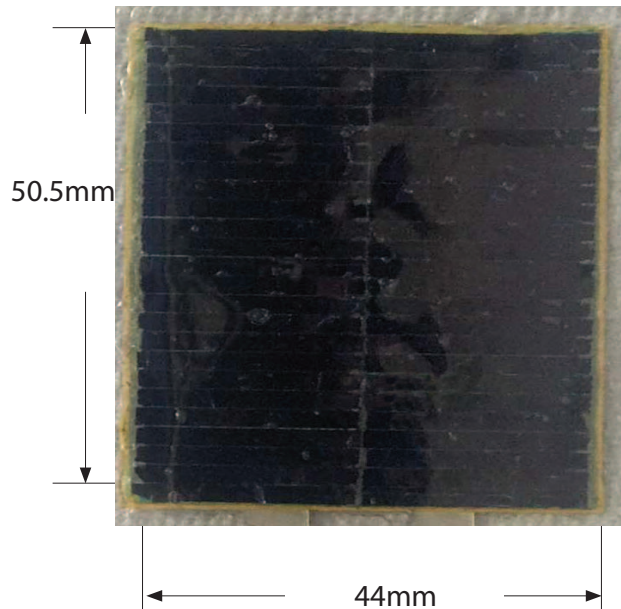


Front View



Rear View

# Blue Chip V603 module



## Typical Electrical Characteristics

BCV603

Rated power (Pmax) <sup>1</sup>	0.3W
Minimum power	0.3W
Voltage at Pmax (Vmp)	5V
Current at Pmax (Imp)	0.06A
Voltage at Vmax (Voc)	6.5V
Short circuit current (Isc)	0.08A
Temperature coefficient of Pmax	- (0.5 +/- 0.05)%/°C
Normal cell operating temp <sup>2</sup>	35°C

## Mechanical Characteristics

BCV603

Active Dimensions (mm)	50.5x44
Laminate edge width(mm)	10
Weight (g)	5
Max flex radius of curvature(mm)	100

### Construction

Front: 5 mil mylar, EVA

Rear: EVA, 5 mil mylar, solder tabs

1. Standard test conditions irradiance of 1000W/m<sup>2</sup> at an AM1.5G solar spectrum and cell temp of 25°C.
2. Normal operating temperature air temperature of 20°C, irradiance 800W/m<sup>2</sup>, wind speed 1m/s.

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