

PHOTON ENERGY SYSTEMS

Blue Chip V6 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

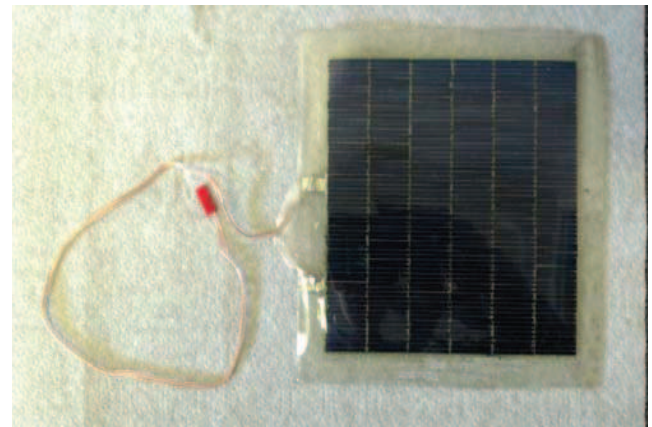
BCV6

Rated power	2.7W
Module efficiency	16%
Nominal voltage	5V

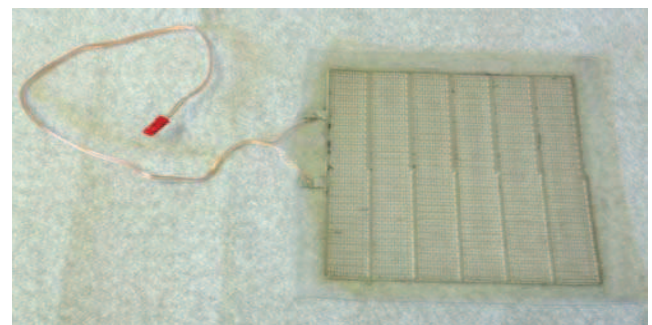
Configuration

Microtiles per row	62
Microtile rows	6
Microtiles total	372
Microtiles in parallel group	31
Microtile groups in series	12

Blue Chip V6 module

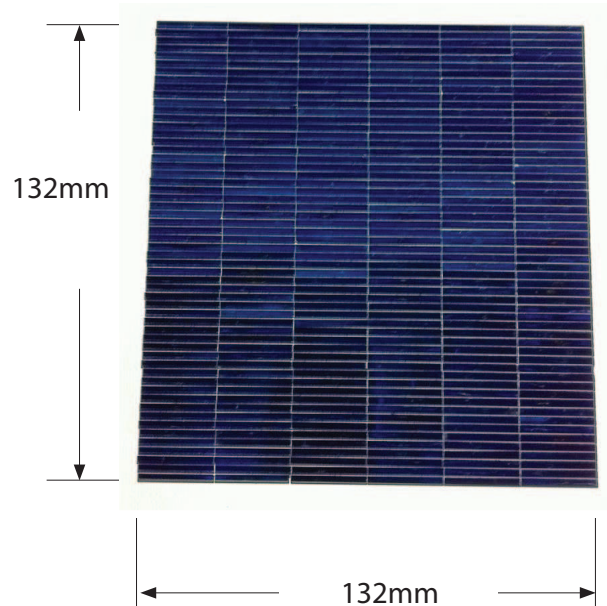


Front View



Rear View

Blue Chip V6 module



Typical Electrical Characteristics

BCV6

Rated power (Pmax) ¹	2.7W
Minimum power	2.4W
Voltage at Pmax (Vmp)	5V
Current at Pmax (Imp)	0.5A
Voltage at Vmax (Voc)	6.5V
Short circuit current (Isc)	0.6A
Temperature coefficient of Pmax	- (0.5 +/- 0.05)%/°C
Normal cell operating temp ²	35°C

Mechanical Characteristics

BCV6

Active Dimensions (mm)	132x132
Laminate edge width(mm)	20
Weight (g)	45
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/m² at an AM1.5G solar spectrum and cell temp of 25°C.
2. Normal operating temperature air temperature of 20°C, irradiance 800W/m², wind speed 1m/s.

Warranty and specifications subject to change without notice. © 2012 Photon Energy Systems.

3270 Seldon Ct. #4
Fremont, CA 94539
www.photonenergysys.com

Tel (510) 912-4662

info@photonenergysys.com