PHOTON ENERGY SYSTEMS

Blue Chip V6075 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.
- √ Ideal for Smart Phones
- √ Flexible

Performance	BCV6075
Rated power	0.75W
Module efficiency	16%
Nominal voltage	5V

Configuration

Microtiles per row	30
Microtile rows	4
Microtiles total	120
Microtiles in parallel group	20
Microtile groups in series	12

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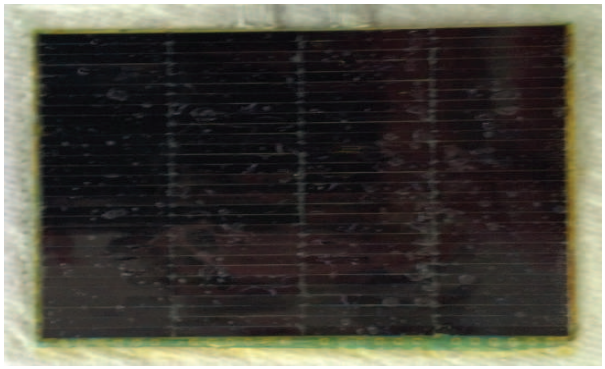
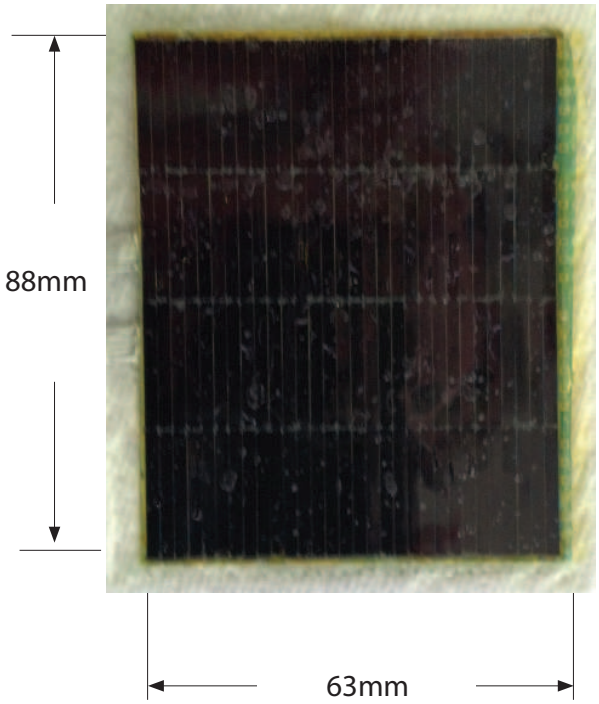


Front View

Rear View

Blue Chip V6075 module



Typical Electrical Characteristics

	BCV6075
Rated power (Pmax)[1]	0.75W
Minimum power	0.7W
Voltage at Pmax (Vmp)	5V
Current at Pmax (Imp)	0.15A
Voltage at Vmax (Voc)	6.5V
Short circuit current (Isc)	0.2A
Temperature coefficient of Pmax	– (0.5 +/– 0.05)%/°C
Normal cell operating temp[2]	35°C

Mechanical Characteristics

	BCV6075
Active Dimensions (mm)	63x88
Laminate edge width(mm)	10
Weight (g)	12
Max flex radius of curvature(mm)	100

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.

Construction

Front: 5 mil mylar, EVA

Rear: EVA, 5 mil mylar, solder tabs

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