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EILICON SOLAR CELL 2 x 4cm - Easy to solder Cat. No. 276-124

What type of material is the cell? Single (Nono) Crystaline Bilicon,

Poss the cell have a costing?
Yes, blue anti-reflection, 95% light absorption costing.

What are the typical electrical outputs of the cell?

Voltage - Voc (open circuit) .55v

Current - Isc (short circuit) .275 - .3 amp

Voltage - Vmax (at load) .484v

Current - Imax (at load) .250 - .275 amp

What is the light level for the above power specification?

1 Full Bun - based on standard test conditions which is
solar irradiance of 1,000 W/MZ, cell temperature of 25 C.

How does temperature affect the power of the cell?

Remember, it is light not heat that produces the power.

Cold temperatures have little effect on power, however very hot conditions i.e. 100 ft, will cause the voltage to drop lower.

Where are the negative and positive connections on the cell?

The front of the cell (blue/dark color) is negative, solder to
the silver colored bar running across the front edge of the cell.

The back of the cell is positive, solder anywhere on the back.

Are there any tips on soldering the cells?

Recommended soldering tip temperature is 650-700 F. Use thin wire (a single copper strand out of speaker wire works well).

Put flux on cell first, put solder on tip, place wire on cell, drag tip across. Do not hold soldering tip down on cell in one spot, as this may lift the coating off the cell.

Are there any charts depicting solar cell response to color or frequency wavelengths?

Yes, xefer to the following charts. Charts also show series and parallel connection of cells.

- Q: Which are the front and back of this cell in order to solder leads?
- A: The front is blue/dark and is negative. Solder the lead to the silver bar on the front edge. The back is positive. The lead can be soldered to any place on the back.
- Soldering Tips Put flux on cell first. Put the solder on tip. Place wire on cell. Drag tip across wire. Do not hold solder tip down on cell in one spot as this may lift the coating off the cell.

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