

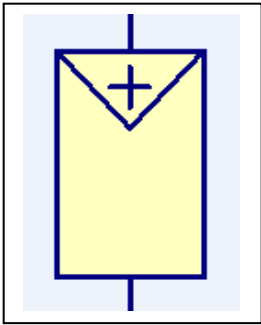
# Device Modeling Report

COMPONENTS: Solar Cell  
PART NUMBER: Q6LM-1680  
MANUFACTURER: Q.CELLS  
REMARK:  $P_{max}=3.97(W)$   
REPORT of SolarCells (LTspice IV)



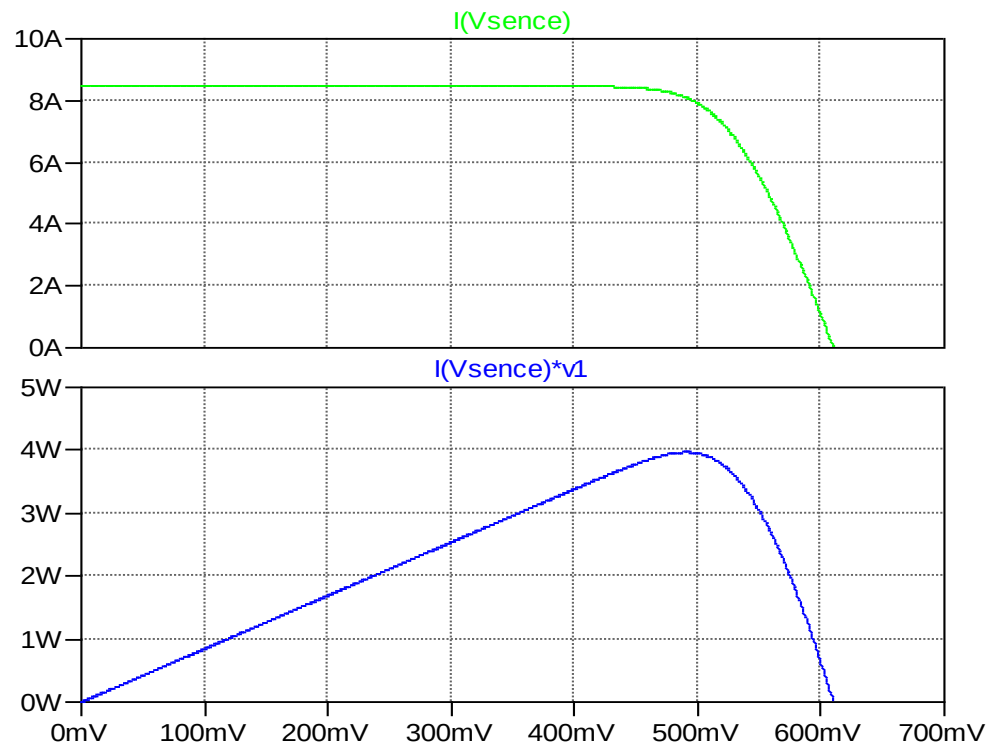
**Bee Technologies Inc.**

## Circuit Configuration

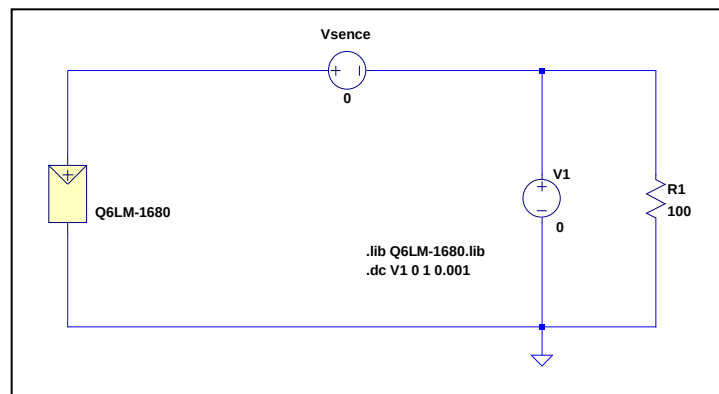


## Output Characteristic

### Circuit Simulation Result



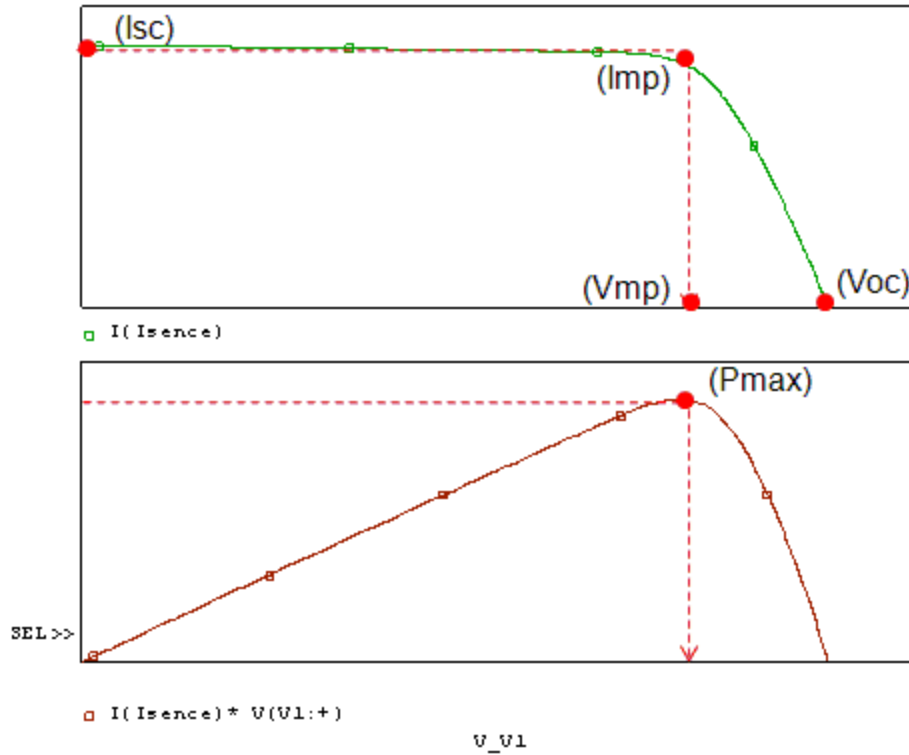
### Simulation Circuit



## Output Characteristic

## Reference

### Circuit Simulation Result



### Data Table

| Symbol | Measurement | Simulation | %Error |
|--------|-------------|------------|--------|
| Pmax   | 3.9700      | 3.9685     | -0.038 |
| Vmp    | 0.4901      | 0.4900     | -0.025 |
| Imp    | 8.1000      | 8.0989     | -0.014 |
| Voc    | 0.6100      | 0.6097     | -0.047 |
| Isc    | 8.4800      | 8.4796     | -0.005 |

## Data Information

|                             |           |
|-----------------------------|-----------|
| No. Q6LM-1680               |           |
| Maximum output (Pmax)       | 3.97(W)   |
| Maximum power voltage (Vmp) | 0.4901(V) |
| Maximum power current (Imp) | 8.1(A)    |
| Open circuit voltage (Voc)  | 0.61(V)   |
| Short circuit current (Isc) | 8.48(A)   |