

# Device Modeling Report

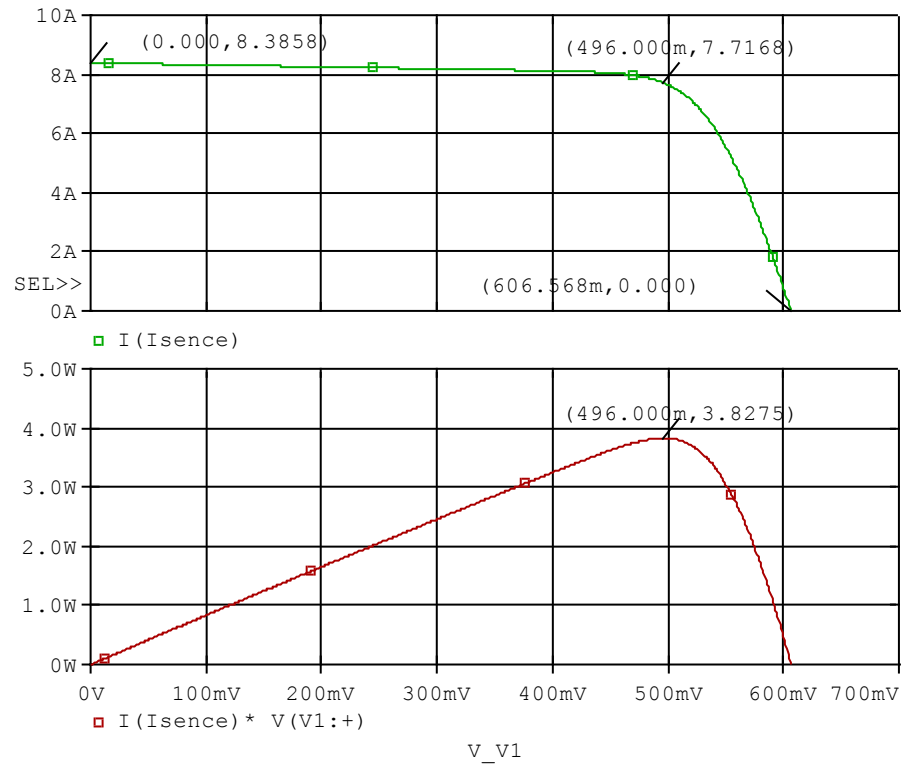
COMPONENTS: Solar Cell  
PART NUMBER: Q6LM-1620  
MANUFACTURER: Q.CELLS  
REMARK:  $P_{max}=3.83(W)$



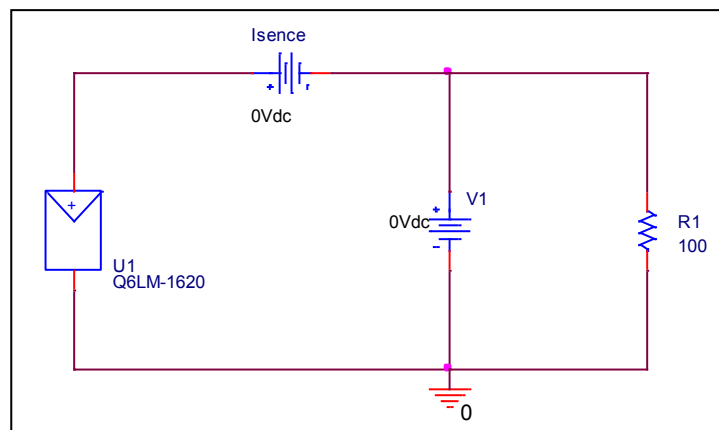
**Bee Technologies Inc.**

## Output Characteristic

### Circuit Simulation Result



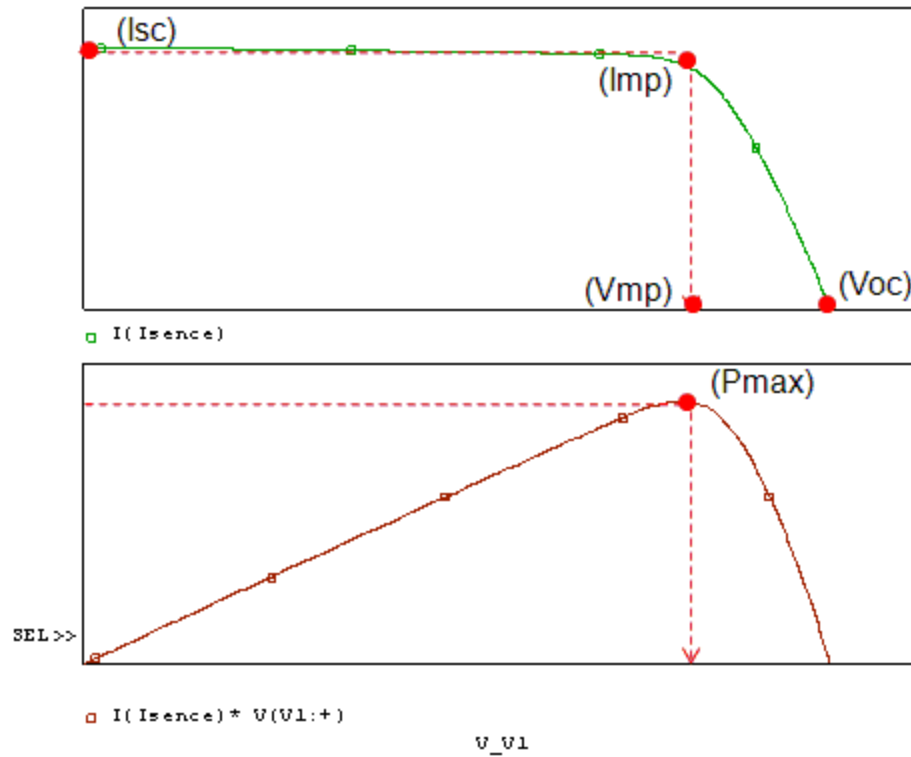
### Simulation Circuit



## Output Characteristic

## Reference

### Circuit Simulation Result



### Data Table

| Symbol | Measurement | Simulation | %Error |
|--------|-------------|------------|--------|
| Pmax   | 3.8300      | 3.8275     | -0.065 |
| Vmp    | 0.4961      | 0.4960     | -0.023 |
| Imp    | 7.7200      | 7.7168     | -0.041 |
| Voc    | 0.6070      | 0.6066     | -0.071 |
| Isc    | 8.4000      | 8.3858     | -0.169 |

## Data Information

|                             |           |
|-----------------------------|-----------|
| No. Q6LM-1620               |           |
| Maximum output (Pmax)       | 3.83(W)   |
| Maximum power voltage (Vmp) | 0.4961(V) |
| Maximum power current (Imp) | 7.72(A)   |
| Open circuit voltage (Voc)  | 0.607(V)  |
| Short circuit current (Isc) | 8.4(A)    |