

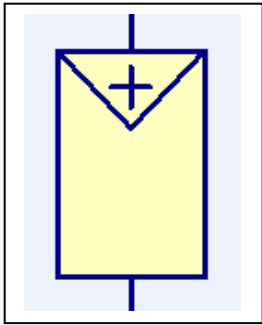
# Device Modeling Report

COMPONENTS: Solar Cell  
PART NUMBER: PCA210  
MANUFACTURER: YOCASOL  
REMARK:  $P_{max}=210(W)$   
REPORT of Solar Cells (LTspice IV)



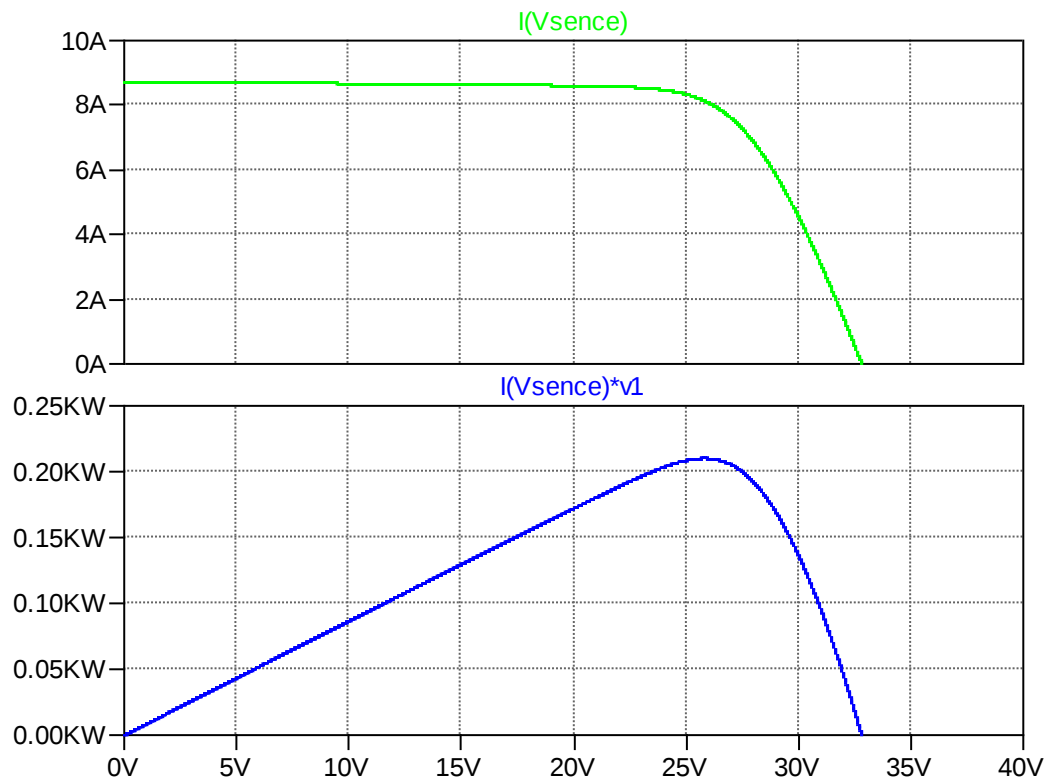
**Bee Technologies Inc.**

## Circuit Configuration

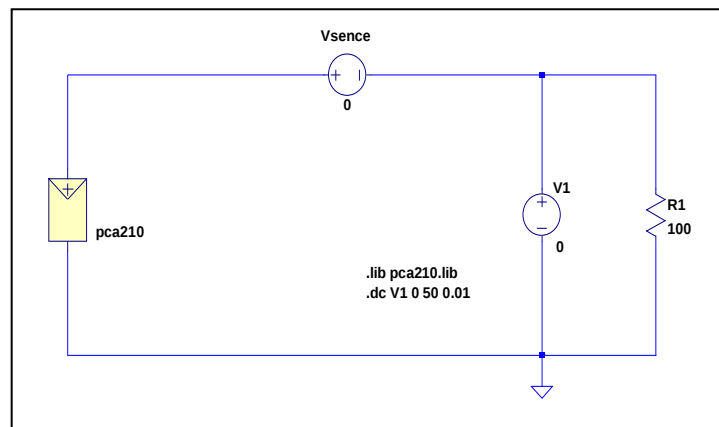


## Output Characteristic

### Circuit Simulation Result



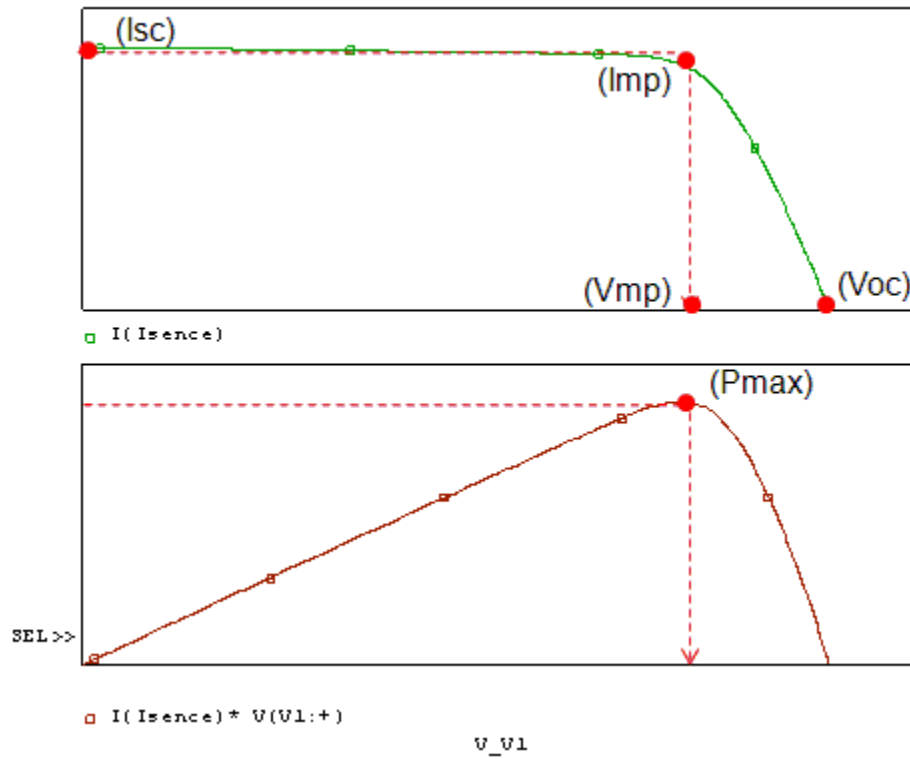
### Simulation Circuit



## Output Characteristic

## Reference

### Circuit Simulation Result



### Data Table

| Symbol | Measurement | Simulation | %Error  |
|--------|-------------|------------|---------|
| Pmax   | 210.000     | 209.8930   | -0.0510 |
| Vmp    | 25.800      | 25.7900    | -0.0388 |
| Imp    | 8.140       | 8.1385     | -0.0184 |
| Voc    | 32.900      | 32.7910    | -0.3313 |
| Isc    | 8.740       | 8.7324     | -0.0870 |

## Data Information

|                             |       |
|-----------------------------|-------|
| No. PCA210                  |       |
| Maximum output (Pmax)       | 210W  |
| Maximum power voltage (Vmp) | 25.8V |
| Maximum power current (Imp) | 8.14A |
| Open circuit voltage (Voc)  | 32.9V |
| Short circuit current (Isc) | 8.74A |