

# Device Modeling Report

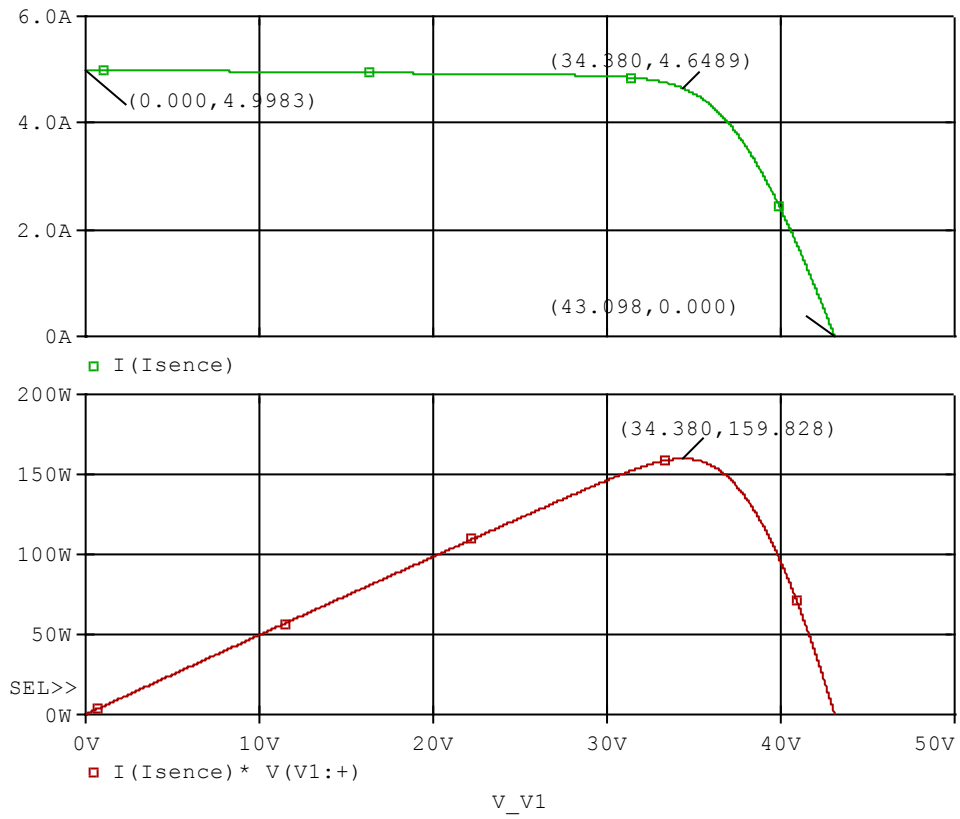
COMPONENTS: Solar Cell  
PART NUMBER: STP160S-24\_Ab-1  
MUNUFACTURER: Suntech Power  
REMARK: Pmax=160 (W)



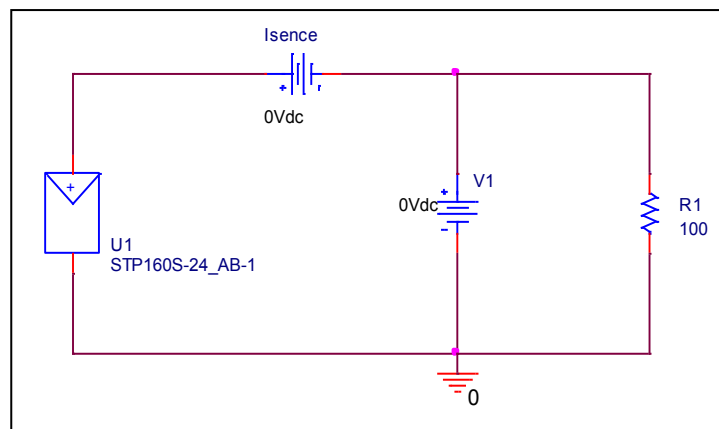
**Bee Technologies Inc.**

## Output Characteristic

### Circuit Simulation Result



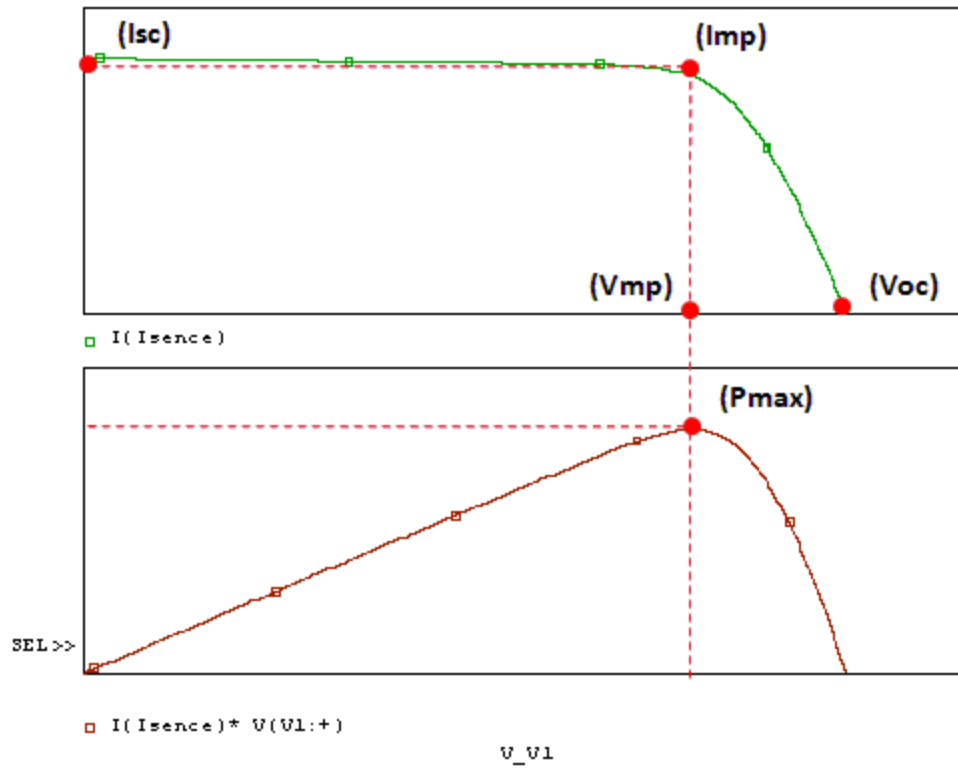
### Simulation Circuit



## Output Characteristic

## Reference

### Circuit Simulation Result



### Data Table

| Symbol | Measurement | Simulation | %Error |
|--------|-------------|------------|--------|
| Pmax   | 160.000     | 159.828    | -0.107 |
| Vmp    | 34.400      | 34.380     | -0.058 |
| Imp    | 4.650       | 4.649      | -0.024 |
| Voc    | 43.200      | 43.098     | -0.236 |
| Isc    | 5.000       | 4.998      | -0.034 |

## Data Information

|                             |         |
|-----------------------------|---------|
| No.STP160S-24_Ab-1          |         |
| Maximum output (Pmax)       | 160.000 |
| Maximum power voltage (Vmp) | 34.400  |
| Maximum power current (Imp) | 4.650   |
| Open circuit voltage (Voc)  | 43.200  |
| Short circuit current (Isc) | 5.000   |