

# Device Modeling Report

COMPONENTS: Solar Cell  
PART NUMBER: BP 4175I  
MUNUFACTURER: bp Solar  
REMARK:Pmax=175(W)  
REPORT of SolarCells (LTspice IV)



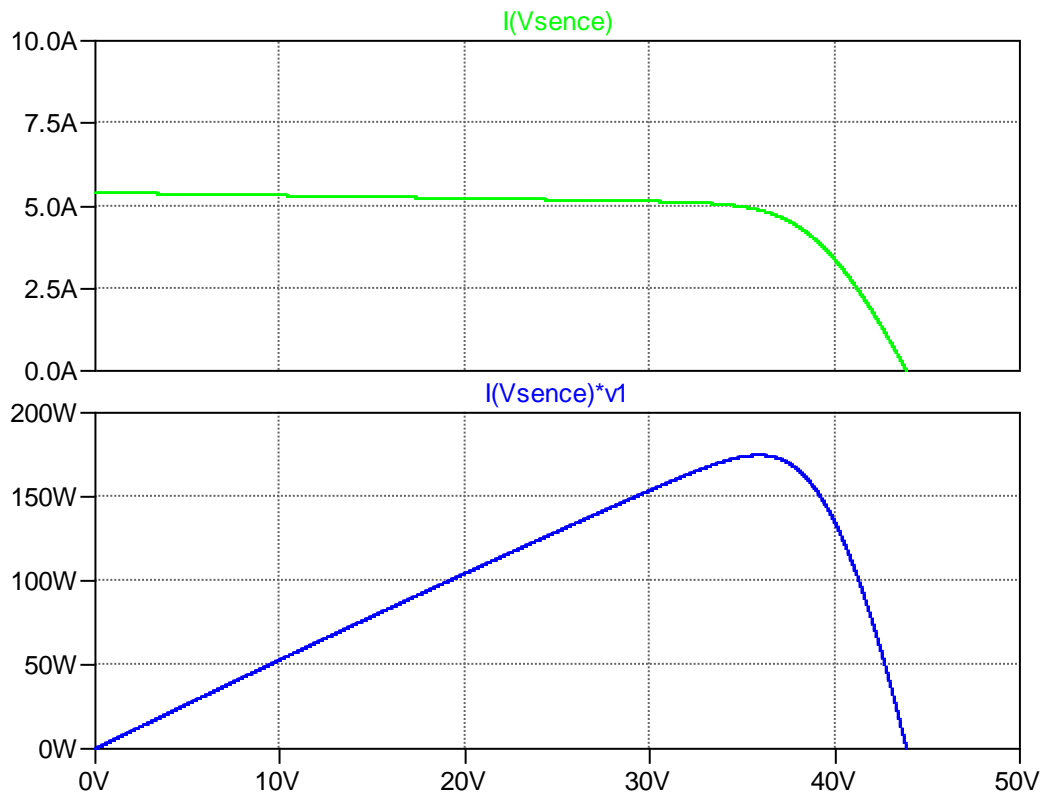
**Bee Technologies Inc.**

# Circuit Configuration

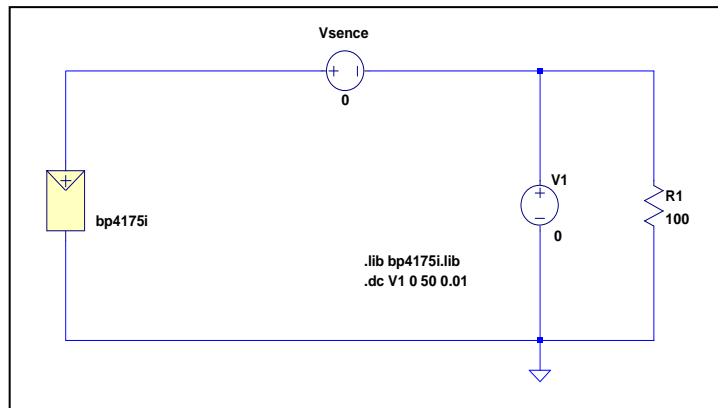


# Output Characteristic

## Circuit Simulation Result



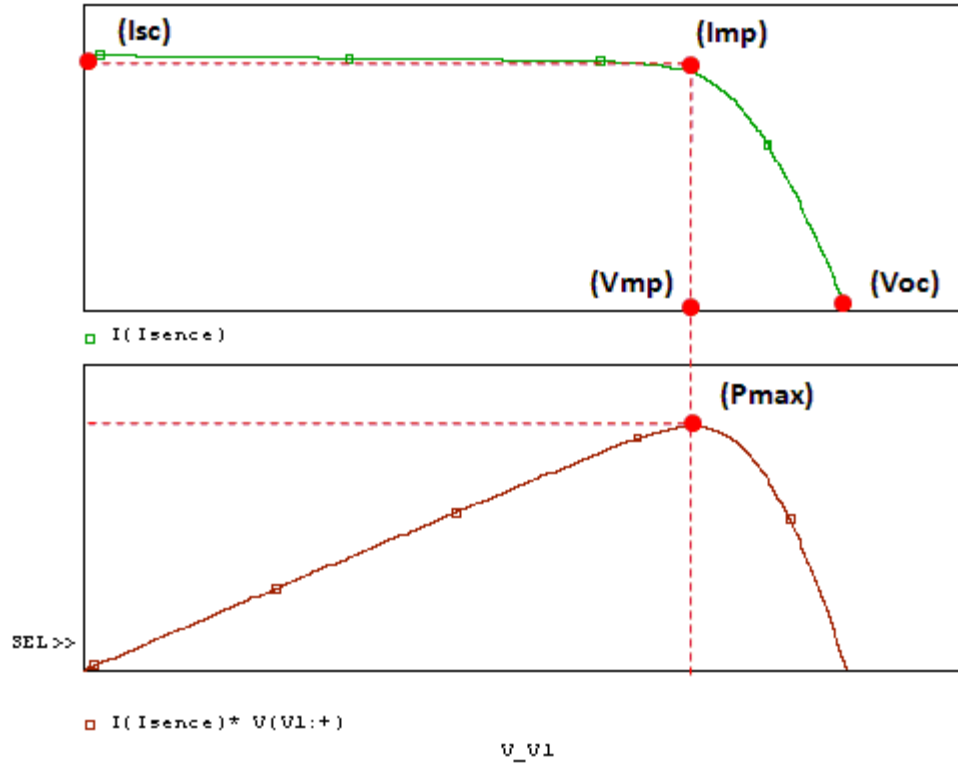
## Simulation Circuit



# Output Characteristic

# Reference

## Circuit Simulation Result



## Data Table

Symbol	Measurement	Simulation	%Error
Isc	5.4000	5.3926	-0.137
Voc	44.0000	43.8450	-0.352
Imp	4.9000	4.8634	-0.747
Vmp	35.7000	35.9000	0.560
Pmax(Imp*Vmp)	174.9300	174.5960	-0.191

## Data Information

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<b>No. BP 4175I</b>	
<b>Maximum power (Pmax)<sup>3</sup></b>	<b>175W</b>
<b>Voltage at Pmax (Vmp)</b>	<b>35.7V</b>
<b>Current at Pmax (Imp)</b>	<b>4.9A</b>
<b>Short-circuit current (Isc)</b>	<b>5.4A</b>
<b>Open-circuit voltage (Voc)</b>	<b>44.0V</b>