

# Device Modeling Report

COMPONENTS: Solar Cell  
PART NUMBER: KD183X-QPE-S  
MUNUFACTURER: KYOCERA  
REMARK:Pmax=183(W)  
REPORT of Solar Cells (LTspice IV)



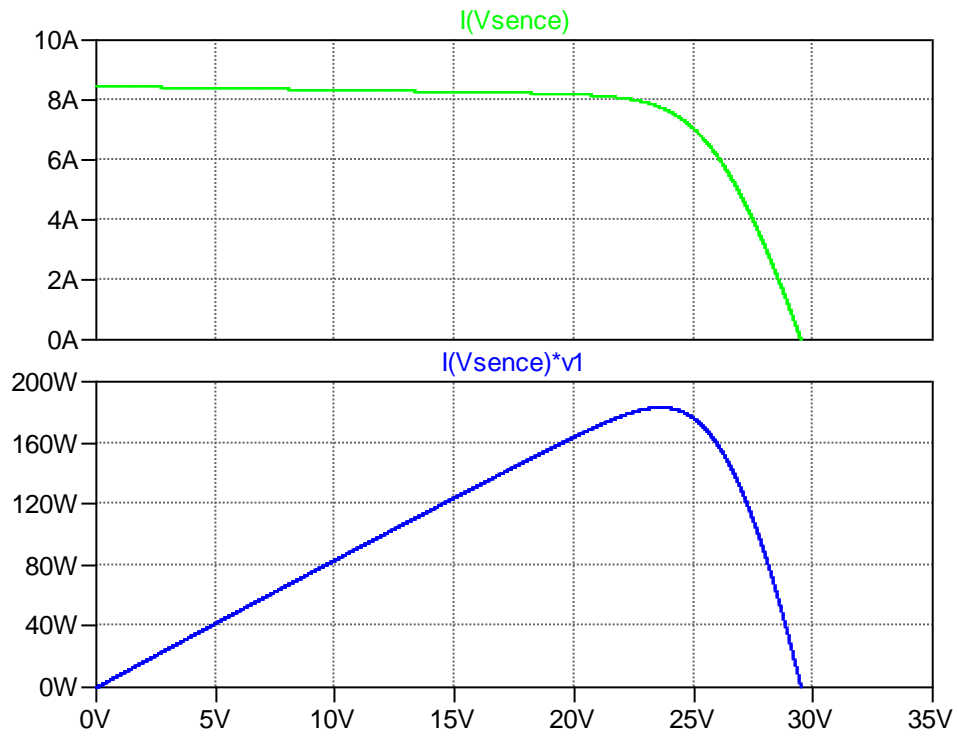
**Bee Technologies Inc.**

# Circuit Configuration

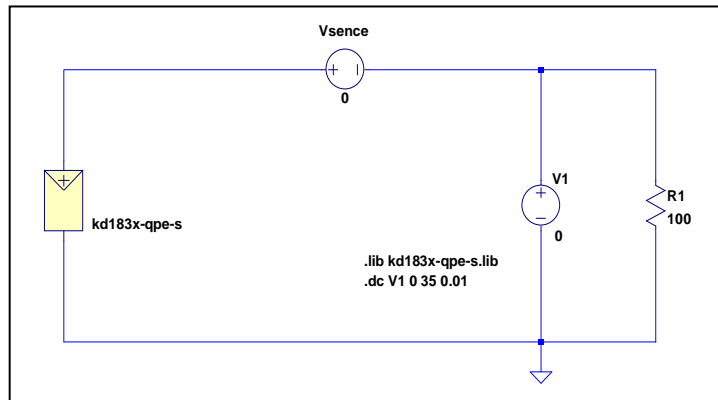


# Output Characteristic

## Circuit Simulation Result



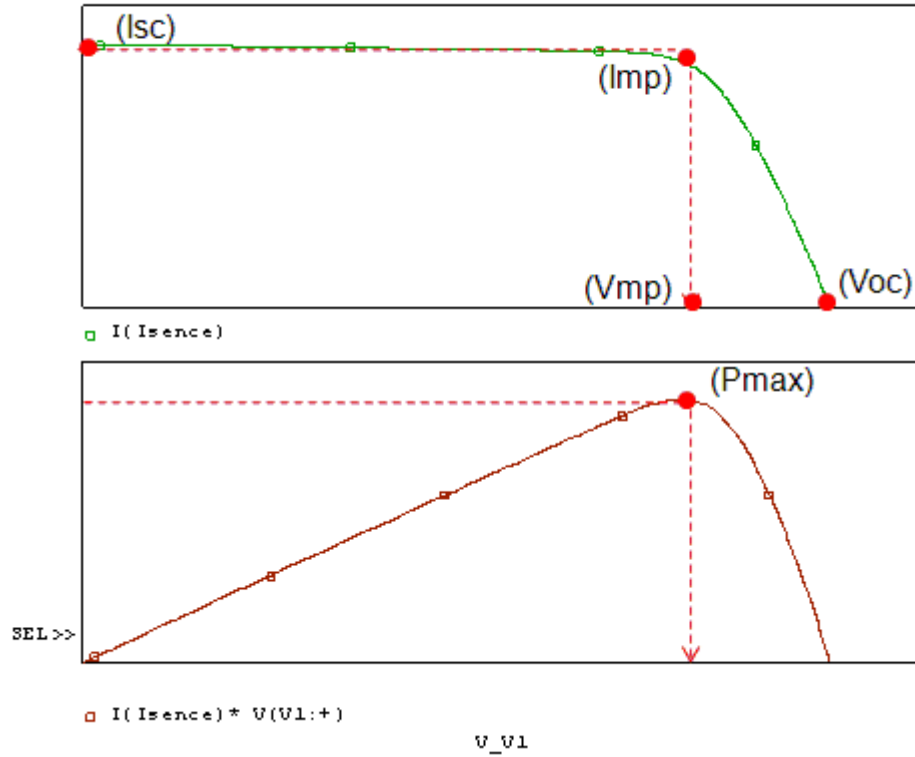
## Simulation Circuit



# Output Characteristic

# Reference

## Circuit Simulation Result



## Data Table

Symbol	Measurement	Simulation	%Error
Pmax	183.000	183.000	0.000
Vmp	23.600	23.600	0.000
Imp	7.760	7.754	-0.075
Isc	8.490	8.468	-0.264
Voc	29.500	29.472	-0.095

## Data Information

No. KD183X-QPE-S	
Maximum power(Pmax)	183(W)
Voltage at Pmax(Vmp)	23.6(V)
Current at Pmax(Imp)	7.76(A)
Short-circuit current(Isc)	8.49(A)
Open-circuit voltage(Voc)	29.5(V)