

Device Modeling Report

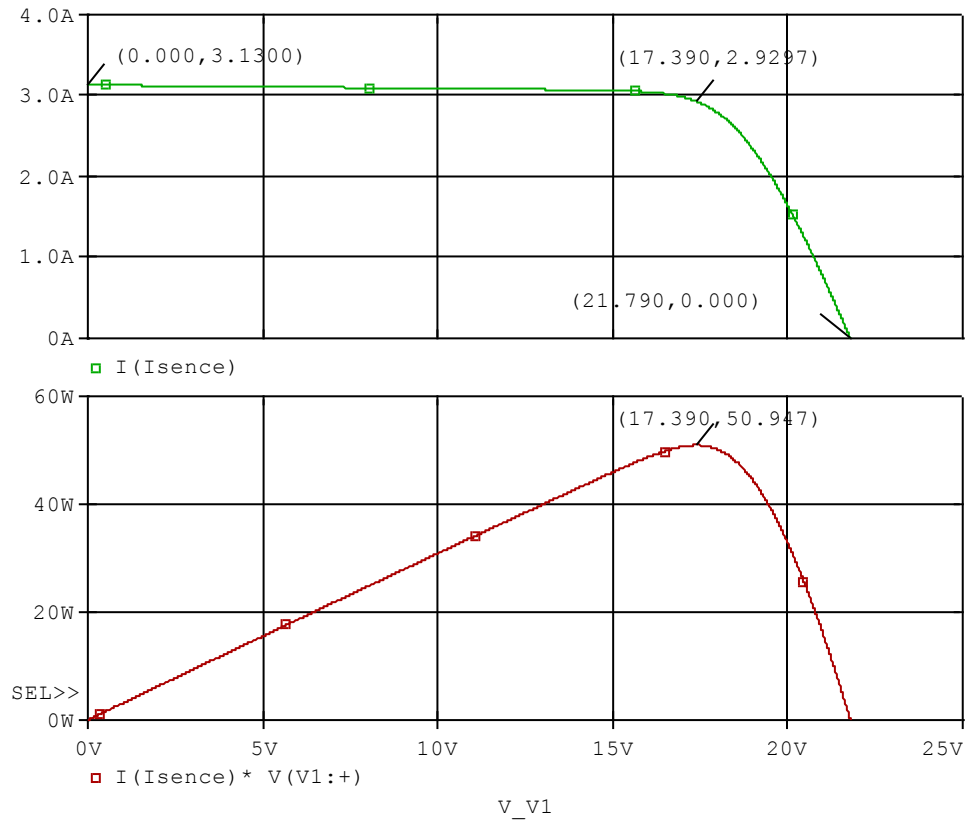
COMPONENTS: Solar Cell
PART NUMBER: STP050D-12/MEA
MUNUFACTURER: Suntech Power
REMARK: Pmax=50(W)



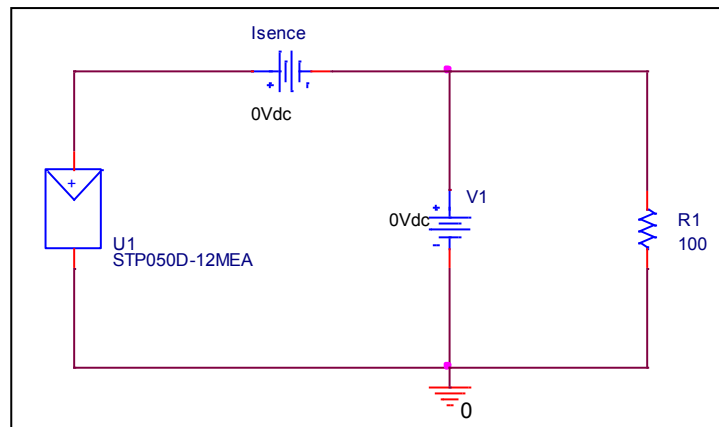
Bee Technologies Inc.

Output Characteristic

Circuit Simulation Result



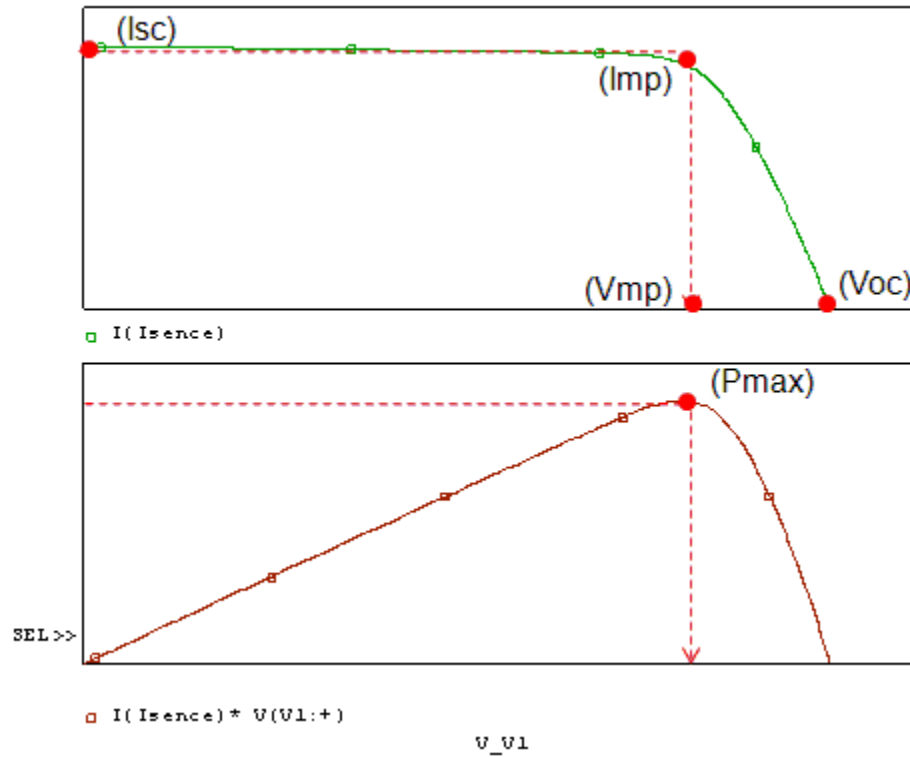
Simulation Circuit



Output Characteristic

Reference

Circuit Simulation Result



Data Table

Symbol	Measurement	Simulation	%Error
Pmax	50.000	50.947	1.894
Vmp	17.400	17.390	-0.057
Imp	2.930	2.930	-0.014
Voc	21.800	21.790	-0.046
Isc	3.130	3.130	0.000

Data Information

No.STP050D-12/MEA	
Maximum output (Pmax)	50.000
Maximum power voltage (Vmp)	17.400
Maximum power current (Imp)	2.930
Open circuit voltage (Voc)	21.800
Short circuit current (Isc)	3.130