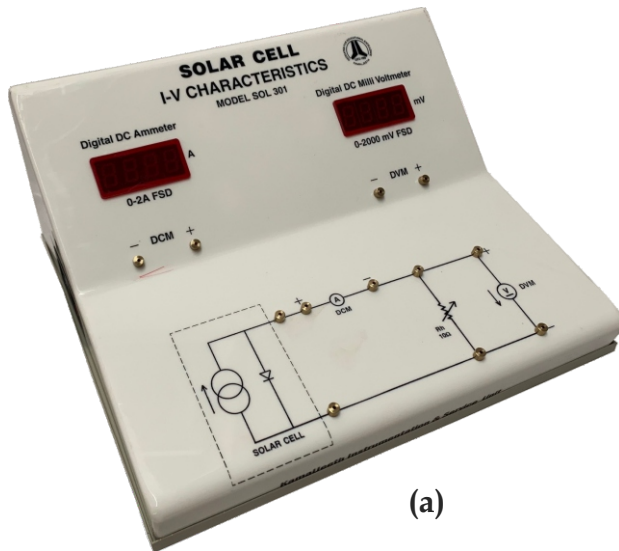


Experiment(s):

1. Determination of Open circuit voltage, short circuit current, efficiency, maximum power point power, I-V Characteristics & fill factor.

(For more details, procedure & manual visit: www.kamaljeeth.net)



(a)



(c)



(d)



(b)

Experiment Setup Consists:

- a) Experimental Kit
- b) Illumination Chamber
- c) Solar Cell
- d) Decade Resistance Box

Specifications:

a) Setup:

Voltmeter: 0-2V, 3½ digit, LED display
Current meter: 0-2A, 3½ digit, LED display
Connectors: 2mm-2mm Brass moulded patch cords
Power: AC 220V/50Hz or AC 110V/60Hz
Power Consumption: <50W
Cabinet: Acrylic body, aluminum bottom

b) Illuminated Chamber:

Halogen Bulb: 60W
Cooling via mini exhaust fan
Adjustable distance for mounting solar panel
Power: AC 220V/50Hz or AC 110V/60Hz

c) Solar Cell: 100x100mm

mono-crystalline ,
MR16 type 1W output
Open circuit Voltage: 0.5V

d) Decade Resistance box:

0 to 1 Ohm Variable in steps of 0.1 Ohm

Reference : Lab Experiments Journal vol-1, No.1, Page-16



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