

SOLAR CELL I-V CHARACTERISTICS

Model: SOL-301/128

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)

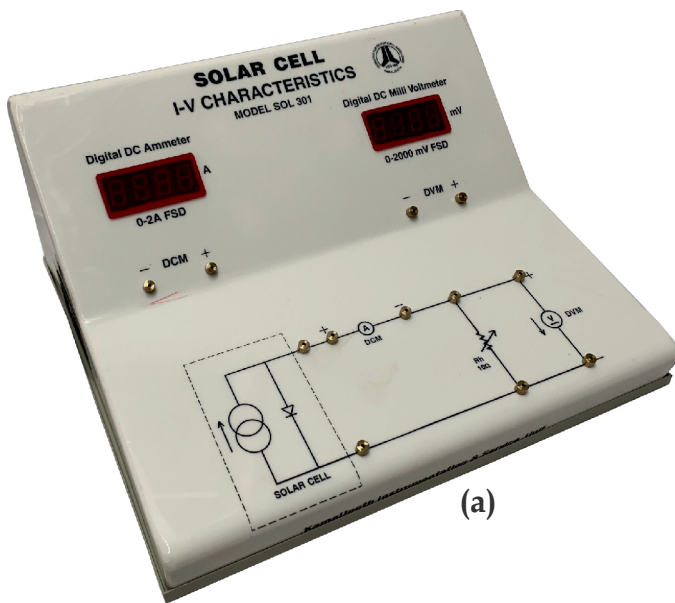
Reference : Lab Experiments Journal vol-1, No.1, Page-16

Experiment setup consists:

- a) Solar cell characteristics kit
- b) Illumination chamber
- c) Solar cell
- d) Decade resistance box

Specifications:

- a) Solar cell characteristics kit**
 Voltmeter: 0-2 V, 3½ digit, LED display
 Current meter: 0-2 A, 3½ digit, LED display
 Connectors: 2 mm - 2 mm brass moulded patch cords
 Rated Input: 220 V/50 Hz
 or 110 V/60 Hz
 Power Consumption: <50 W
 Cabinet: Acrylic body, aluminium bottom
- b) Illuminated chamber**
 Halogen bulb: 60 W
 Cooling via mini exhaust fan
 Adjustable distance for mounting solar panel
 Rated Input: 220 V/50 Hz
 or 110 V/60 Hz
- c) Solar cell**
 Size: 100 x 100 mm
 mono-crystalline ,
 MR16 type 1 W output
 Open circuit Voltage: 500 mV
- d) Decade resistance box**
 0 to 1 Ω variable in steps of 0.1 Ω



KAMALJEETH INSTRUMENTS

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3 years manufacturing warranty