

UM-SJTU PHYSICS LABORATORY VP241

DATA SHEET (EXERCISE 3)

Name: _____

Student ID: _____

Name: _____

Student ID: _____

Group: _____

Date: _____

NOTICE. Please remember to show the data sheet to your instructor before leaving the laboratory. The data sheet will not be accepted if the data are recorded with pencil or modified by correction fluid/tape. If a mistake is made in recording a datum item, cancel the wrong value by drawing a fine line through it, record the correct value legibly, and ask your instructor to confirm the correction. Please remember to take a record of the precision of the instruments used.

You are required to hand in the original data with your lab report, so please keep the data sheet properly.

QUANTITY	PRECISION
DC voltage	_____ []
DC current	_____ []
distance	_____ []
solar power	_____ []

Table 1. Multimeter precision.

length []	width []

Table 2. Measurement data for area.

	1	2	3	4	5	6
$P_{\text{—}} []$						
$P_{\text{—}} []$						

Table 3. Measurement data for solar power.

	single device at ____ cm	single device at ____ cm	series	parallel
$U_{oc} []$				
$I_{sc} []$				

Table 4. Measurement data for U_{oc} and I_{sc} .

Instructor's signature: _____

	series		parallel	
	U []	I []	U []	I []
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

Table 5. Measurement data for the U vs. I relation (series/parallel configuration).

Instructor's signature: _____

	___ cm		___ cm	
	U [___]	I [___]	U [___]	I [___]
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

Table 6. Measurement data for the U vs. I relation (___ cm/___ cm configuration).

Instructor's signature: _____