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071305T4 EOP

ELECTRICAL OPERATOR (POWER OPTION) LEVEL 5

ENG/PO/EI/CR/07/5/A

INSTALL SOLAR SYSTEM

July/August 2024

Time: 3 Hours

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

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PRACTICAL ASSESSMENT

3 HOURS

INSTRUCTIONS TO CANDIDATE

1. Do not write on the question paper
2. No circuits should be connected to **POWER** without the assessor's permission
3. A separate plain paper will be provided
4. All electrical installations must be carried out with relevant IEEE regulations
5. Return the question paper to the assessor at the end of the assessment.

This paper consists of three (3) printed pages.

Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

You have been provided with the following resources

S/NO	ITEM
1	Solar module
2	Solar battery
3	Charge controller
3	Straight batten lamp holders
4	Junction boxes
5	13A socket outlets
6	One way 1-gang switches
8	Deep Pattress box
9	1.5 mm^2 PVC sheathed cable TWE
10	2.5 mm^2 PVC sheathed cable TWE
11	Wood Screws
12	Cable clips

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Figure 1 shows the layout diagram of a stand-alone solar installation system with two final circuits. The solar module is pre-installed.

Using resources provided, you are required to carry out the following tasks while referring to the figure:

TASK 1: Draw a wiring diagram such that:

i. Lamps L_1 and L_2 are controlled by switches S_1 and S_2 respectfully.
ii. Socket outlets are in radial

TASK 3: Install the system using PVC sheathed cables on surface

TASK 4: Perform polarity test

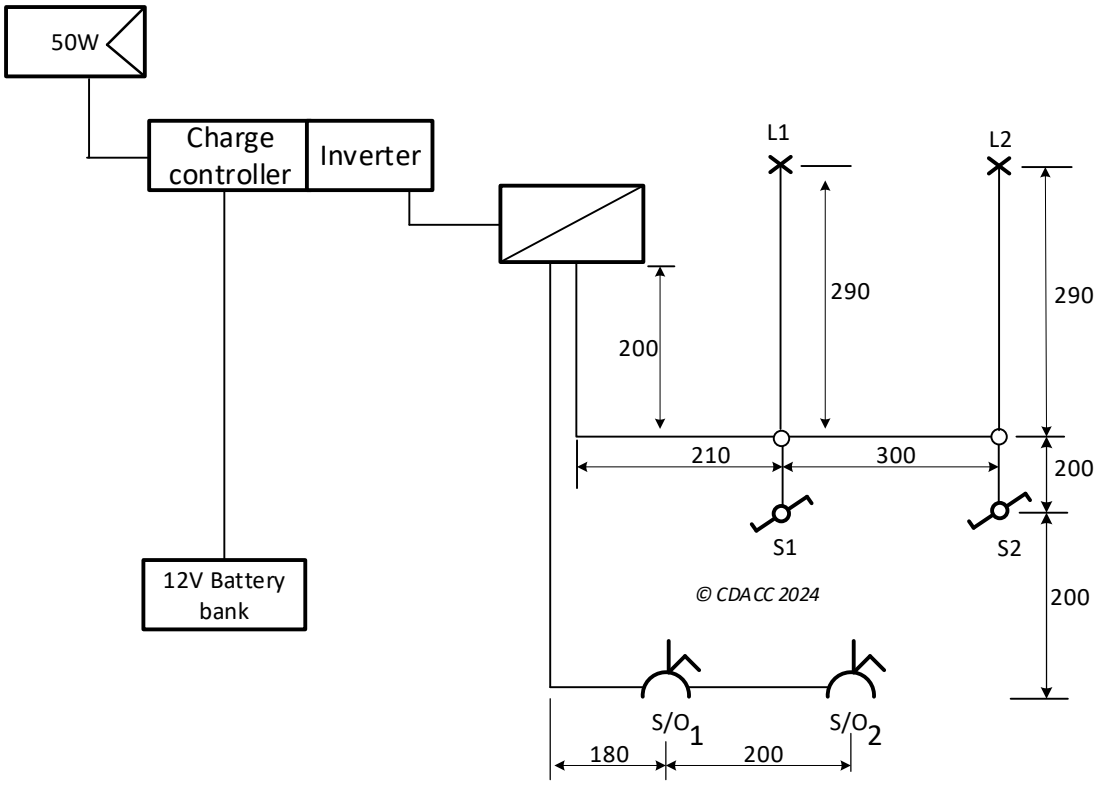


Figure 1

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