

Exercise

Electric_Part2

by

Siti Aisah binti Harun
Faculty of Industry Science & Technology
aishahh@ump.edu.my



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<http://ocw.ump.edu.my/course/view.php?id=458>

Exercise 1

A blue bulb has a resistance of 240Ω when operating with a potential difference of 120 V across it. What is the current in the blue bulb?

Ans : 0.5 A



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Exercise 2

To produce an electric current of 10 mA across a 9 V alternators, how much resistance should be connected?

Ans : 900 Ω



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Exercise 3

A 115-V stand fan is rated at 110 W. Find the current through the stand fan when it is operating.

Ans : 0.96 A



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Exercise 4

The sticker on a hair dryer says that it draws 28 A of current when powered by a 9 V battery.

(i) What is the power of the hair dryer?

(ii) Estimate the weekly cost of electricity if it operates 8 hours per day and the electric company charges 12 cents per kWh.

Ans : (i) 25W (ii) RM 1.69



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