

## Myanmar a storage battery of emf 8v

A storage battery of emf 8.0 V and internal resistance 0.5  $\Omega$  is being charged by a 120V dc supply using a series resistor of 15.5  $\Omega$  what is the terminal voltage of the battery during charging ? What is the purpose of having a series resistor in the charging circuit?

A storage battery of emf 12 V and internal resistance 0.5 ohm is to be charged by a battery charger which supplied 110 V d.c . how much resistance must be connected in series with battery to limit the charging current to 5 A ? What will be the potential difference across the terminal of battery during charging ?

(i) A storage battery of emf 8 V, internal resistance 1  $\Omega$  is being charged by a 120 V d.c. source using a 15  $\Omega$  resistor in series in the circuit. Calculate the current in the circuit (ii) terminal ...

A storage battery is of emf 8V and internal resistance 0.5 ohm is being charged by d.c supply of 120 V using a resistor of 15.5 ohm a) Draw the circuit diagram. b) Calculate the potential difference across the battery. c) What is the purpose of having series resistance in this circuit?

Hello. In the question it is given consider one storage battery of E M. F. Eight volt. So E. M storage battery is equal to eight volt. And the internal resistance of the same battery is found to be 0.5. And that these two ...

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Emf of the storage battery  $E = 8.0$  V Internal resistance of the battery  $r = 0.5$   $\Omega$  DC supply voltage  $V = 120$  V Resistance of the resistor  $R = 15.5$   $\Omega$  Effective voltage in the circuit =  $V - IR$  is connected to the storage battery in series. Hence it can be written as Voltage across resistor R given by the product  $IR = 7 \times 15.5 = 108.5$  V DC supply voltage = Terminal voltage of battery + Voltage ...

Click here [to get an answer to your question](#) 13. A Storage battery of emf 8.0V and internal resistance 0.5 $\Omega$  is being charged by a 120V dc supply using a series resistor of 15.5 $\Omega$ . What is the terminal voltage of the battery during charging ? 1) 11.5V 2) 15.5V 3) 17.5V 4) 14.5V

A storage battery with emf 8.0 V and an internal resistance of 0.5  $\Omega$  is charged with a DC supply of 120 volts and in this process, a resistance of 15.5  $\Omega$  is applied in series. The terminal ...

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A cell of emf "E" and internal resistance "r" is connected across a variable load resistor R. Draw the plots of the terminal voltage V versus (i) R and (ii) the current I. It is found that when  $R = 4 \Omega$ , ...

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A storage battery of emf 8V, internal resistance  $1 \Omega$ , is being charged by a 120V d.c. source, using a  $15 \Omega$  resistor in series in the circuit. Calculate (i) the current in the circuit. (ii) terminal voltage across the battery during charging, and (iii) ...

A storage battery of emf  $8.0 \text{ V}$  and internal resistance  $0.5 \Omega$  is being charged by a  $120 \text{ V}$  dc supply using a series resistor of  $15.5 \Omega$ . What is the terminal voltage of the battery during charging? What is the purpose of having a series resistor in the charging circuit? Show more...

Emf of the battery  $e = 8 \text{ V}$ , emf of DC supply  $V = 120 \text{ V}$  Since, the battery is bring changed, so effective emf in the circuit  $E = V - e = 120 - 8 = 112 \text{ V}$  Current in circuit,  $I = \frac{\text{Effective emf}}{\text{Total resistance}} = \frac{112}{0.5 + 15.5} = 7 \text{ A}$  The battery of 8 V is being charged by 120 V, so the terminal potential across

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battery of 8 V ...

A capacitor of capacitance  $0.1 \mu\text{F}$  is connected to a battery of emf  $8\text{V}$  as shown in the fig. Under steady state condition. A. current in the resistor between point A and B is  $0.2 \text{ A}$ . B. charge on the capacitor is  $0.2 \mu\text{C}$ . C. current in the resistor between point A and B is  $0.4 \text{ A}$ . D.

A storage battery of emf  $8 \text{ V}$ , internal resistance  $1 \Omega$ , is being charged by a  $120 \text{ V}$  d.c. source, using a  $15 \Omega$  resistor in series in the circuit. Calculate the chemical energy stored in the battery in 5 minutes.

Answer: Emf of the storage battery,  $E=8.0 \text{ V}$  Internal resistance of the battery,  $r=0.5 \Omega$  DC supply voltage,  $V=120 \text{ V}$  Resistance of the... Online Classes. Tutions. Class 12 Tuition Class 11 Tuition Class 10 Tuition Class 9 Tuition Class 8 Tuition;

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