Solution:

Given:

ε=13.2 V

 $r=24\mathrm{m}\Omega$

I=20.0 A

Find:

V-?

Let use Ohm's law for closed with electromotive force

$$\frac{\varepsilon}{R+r} = I$$

The terminal voltage of the battery is

$$U = \varepsilon - Ir = 13.2 - 20 \cdot 0.024 = 12.72 V$$

Answer: 12.72 V

http://www.AssignmentExpert.com/