

## Problem 25.64

A person with body resistance between his hands of  $10\text{ k}\Omega$  accidentally grasps the terminals of a  $16\text{-kV}$  power supply.

## Part A

If the internal resistance of the power supply is  $2500\ \Omega$

Express your answer using two significant figures.

$$I = 1.3\text{ A}$$

[My Answers](#) Give Up

Correct

## Part B

What is the power dissipated in his body?

Express your answer using two significant figures.

$$P = 1.6 \times 10^4\text{ W}$$

[My Answers](#) Give Up

Correct

## Part C

If the power supply is to be made safe by increasing its above situation to be  $I_{\text{max}} = 1.00\text{ mA}$  or less?

Express your answer using two significant figures.