

- 28** A power station produces 10 MW of electricity at a voltage of 600 V. Before transmitting the power over long distance cables, a step-up transformer of turns ratio 1:150 is used to increase the voltage. The long distance cables have a total resistance of $20\ \Omega$.

What is the power loss in the long distance cables?

A 2.2 kW

B 18 kW

C 41 kW

D 250 kW