

Easy

Assistant Engineer (Electrical), Class 2025

Building Department

Two six pulse converters used for bipolar HVDC transmission system are rated at 1000 MW, 200 kV. What is the DC transmission voltage?

A

200 kV

B

400 kV

Correct

C

500 kV

D

100 kV

Correct Answer: B

Full Detailed Explanation

Concept & Reasoning: The notation gives each pole's voltage relative to earth/neutral. In a bipolar scheme the useful voltage between conductors is twice the pole-to-ground magnitude. The MW rating is not needed to calculate this voltage. How to Solve It in the Exam: V bipolar link conductor-to-conductor voltage = 2V. Important Exam Point: Separate pole voltage from pole-to-pole transmission voltage. Related Revision Path: This question sits in the revision path Power Electronics → HVDC Transmission → Bipolar HVDC.

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