

DC Line Model RSPDC3

HVDC RSPDC3 *Two terminal D.C. Transmission*

This model is a combination for 3 other models into a single mode

InitMode	Set to ≤ 0 to control to the initial MW, otherwise control to the initial current
ModMode	Set to 1 to use the FCWDPT auxiliary controller specified in parameters below Set to 2 to use the CFCAUT auxiliary controller specified in parameters below
CDC6T	the first 32 floating point parameters are the CDC6T model
FCWDPT	the next 7 floating point parameters are the FCWDPT model
CFCAUT	the next 5 floating point parameters are the CFCAUT model
Pmax, Pmin	Last 2 parameters are a Pmax and Pmin

This model as points at 3 other objects

FCWD Bus	: Bus used with the FCWDPT (Frequency with deadband auxiliary controller)
CFC Bus	: Bus used with the CFCAUT (constant frequency control auxiliary controller)
Other DCPole	: Link to another DC line that represent the companion pole of a DC line

The Auxiliary Controller has special treatment as follows.

- If one of the DC auxiliary signals built into this model is active, then the output of that auxiliary signal will also be limited by the parameters Pmax and Pmin.
- After applying this limit, if the Other DCPole is presently either blocked or bypassed, then the auxiliary signal of this model will be multiplied by 2.
- Finally, the auxiliary signal will be multiplied by the DC Rectifier Voltage in kV and then divided by 900.

For a Detailed Treatment of how DC lines are implemented in the software see the help topic at https://www.powerworld.com/WebHelp/#TransientModels_HTML/Overview%20of%20HVDC%20Modelling.htm