

isrc_dc.ebe

Attributes

```
ebe name=isrc_dc allow_elex=yes
Jacobian: constant
nodes: p n
state_vars:
aux_vars:
aux_vars_startup:
elex_aux_vars:
x_vars:
iparms:
sparms:
rparms: idc=0
stparms:
igparms:
n_sw_states: 0
sw_type: none
outparms: i v pwr
```

Description

`isrc_dc.ebe` is a constant current source with the current given by the real parameter `idc`. This current flows from the external circuit to node `n`, and then to node `p`. The branch current (from `n` to `p`), the branch voltage ($v_p - v_n$), and the power $p = (v_p - v_n) \times i$ are made available as output variables, `i`, `v`, `pwr`, respectively.