

Block UBPEMECSTACK



DUMMY

Name	UBPEMECSTACK
Function	ubpemekstack
Inputs	4
Outputs	4
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Group	S

Inputs

- 1 Current [A]
- 2 Time
- 3 Ambient Temperature / Temperature Setpoint [Celsius]
- 4 Heating Power [W]

Outputs

- 1 Stack Voltage [V]
- 2 Cell Temperature [°C]
- 3 Hydrogen Mass Flow [kg/timestep]
- 4 Heat Generation [W]

Parameters

- 1 Cell Area [cm^2]
- 2 Amount of Cells per Stack
- 3 Heat Capacity [J/K]
- 4 Heat Transfer Coefficient
- 5 Heat Transfer Exponent
- 6 Time Step
- 7 Limitting Current Density
- 8 Anode Charge Transfer
- 9 Cathode Charge Transfer

- 10 Anode Exchange Current Density
- 11 Cathode Exchange Current Density
- 12 Thermal Model

Strings

None
