

## calcac\_pf.gce

### Attributes

mainvars: v i

### Description

calcac\_pf.gce is a post-processing element. It takes as input the voltage and current phasor data (given by the main variables v and i, respectively). Using  $\mathbf{V}$  and  $\mathbf{I}$ , it computes the following:

- (i) rms value of  $v(t)$
- (ii) rms value of  $i(t)$
- (iii) real (average) power
- (iv) reactive power
- (v) power factor
- (vi) magnitude of the complex power

The above values are made available as output variables.

When the output variable(s) computed by this element is written to an output file of a solve block, it is expected that the phasor variables v and i (magnitude and phase) are also made available in an output file in the same solve block, but the two output files must be distinct.

This element is only used in AC analysis.