# Grid-forming Converter Frame: Frame for grid-forming control of a converter



**0**    p_set=0.97 p.u.

**1**    q_set=0.34 p.u.

**2**    =

u=1.05 p.u.

**Voltage control**

u_set=1.11 p.u.

**Voltage measurement**
**Voltage Measurement**

Fnom=60.00 Hz

fref=0.00 p.u.

ur;ui=0.89; 0.56 p.u.

**Power calculation**
**Power Calculation**

p=0.32 pu

q=0.35 pu

ir=0.43 p.u.

ii=-0.12 p.u.

**Current measurement**
**Current Measurement**

**Grid-forming control**
**Droop Control**

speed=1.00 p.u.

f_Hz=60.19 Hz

u_mag=1.11 p.u.

cos_utheta=0.84

sin_utheta=0.54

**Output voltage calculation**
**Output Voltage Calculation**

ur=0.90 p.u.

ui=0.58 p.u.

**Converter**
**BESS 01**

**Virtual impedance**
**Virtual Impedance**

u_vi_r=0.03 p.u.

u_vi_i=0.02 p.u.

i=0.45 p.u.

FlagLimit=0.00