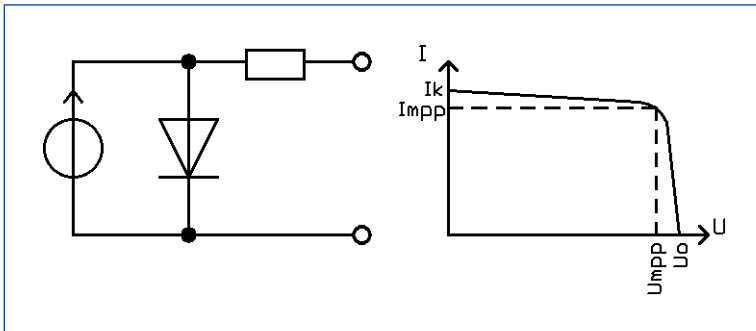


## Equivalent circuit diagram of a PV generator and its characteristic

### Attributes

- current source with low internal resistance
- no memory characteristic



## Power supply simulation (e. g. LAB / HP / SMS / SMP)

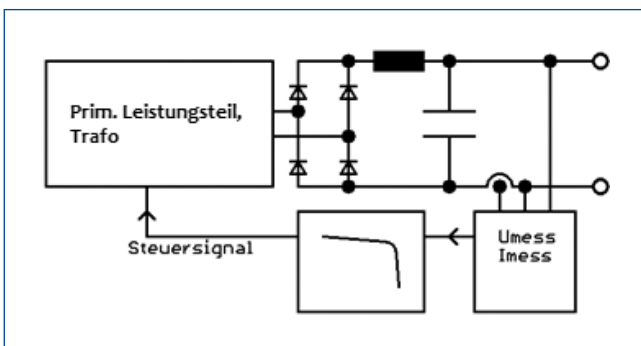
Output voltage and output current are measured and adjusted according to a predefined characteristic.

### Pro

- easy application
- uncomplicated high performance

### Contra

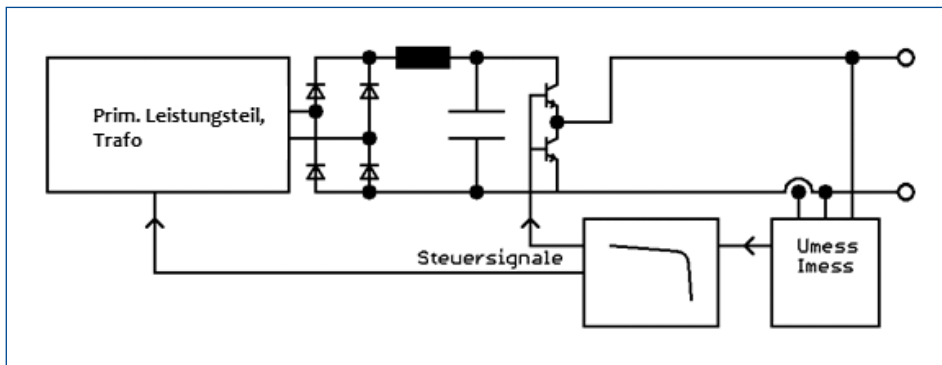
- single-quadrant operation (energy storage units are discharged by load)
- load sees a capacity which is not present in a realistic PV generator at such dimensions



## Power supply simulation with downstream analog section (PV simulator)

PV simulator consists of (LAB/HP) + downstream analog section (PV)

Power supply is connected to a downstream analog linear regulator.



### Pro

- two-quadrant operation: output can also be loaded
- no (or only small) energy storage at the output, load sees no capacity
- simulation of the characteristic is faster and more dynamical