



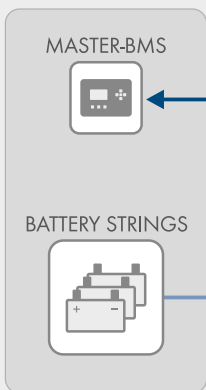




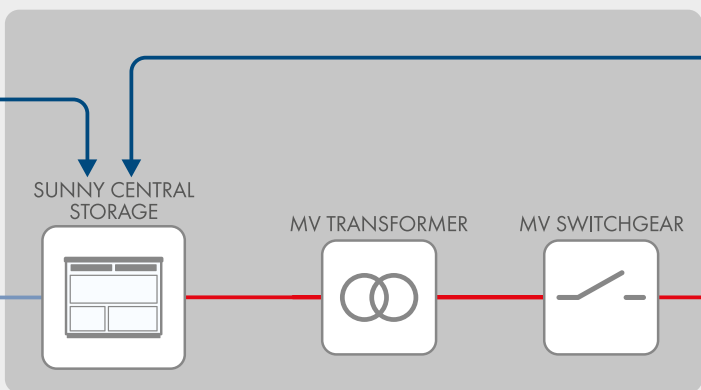
## SYSTEM DIAGRAM

- DC
  - AC
  - Modbus TCP
  - SMA scope
  - Customer scope
- \*with own BMS

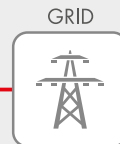
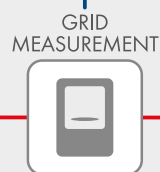
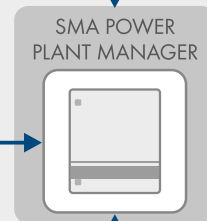
### BATTERY\*



### MV POWER STATION STORAGE SOLUTION



### OVER-LAID EXTERNAL CONTROLLER AND MONITORING SYSTEM (SCADA)



### Grid-connected functions

- Setpoints for active and reactive power
- Static grid support  $Q(U)$ ,  $P(f)$
- Dynamic grid support (FRT)
- Active islanding detection (AID)
- High compatibility with different battery types

### Compatible with energy management system functionalities

- External static grid supporting functions
- Ramp-rate control of PV power
- Peak shaving
- Energy shifting
- Genset optimization control
- Reducing necessary spinning reserve of gensets
- Battery start-up and stop sequence
- Operates the battery within optimal operation window
- Grid Forming
- Black Start