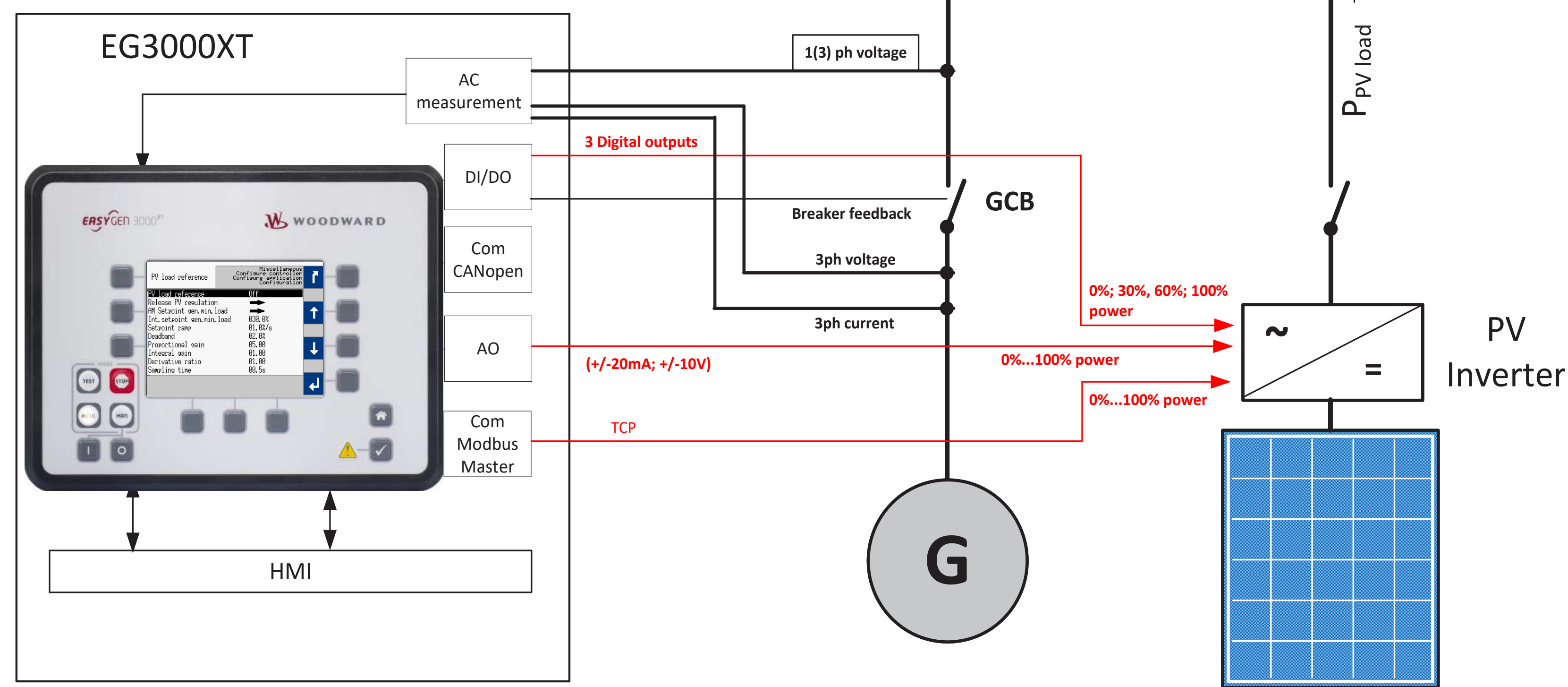


## SOLAR PV INVERTER - DIESEL GENERATOR REGULATION



The easYgen3000XT regulates the PV Inverter in parallel with the Diesel Generator. The PV regulation output is a PID control loop based on:

- The generator **real load [%]**
- The configurable generator **minimal load [%]**

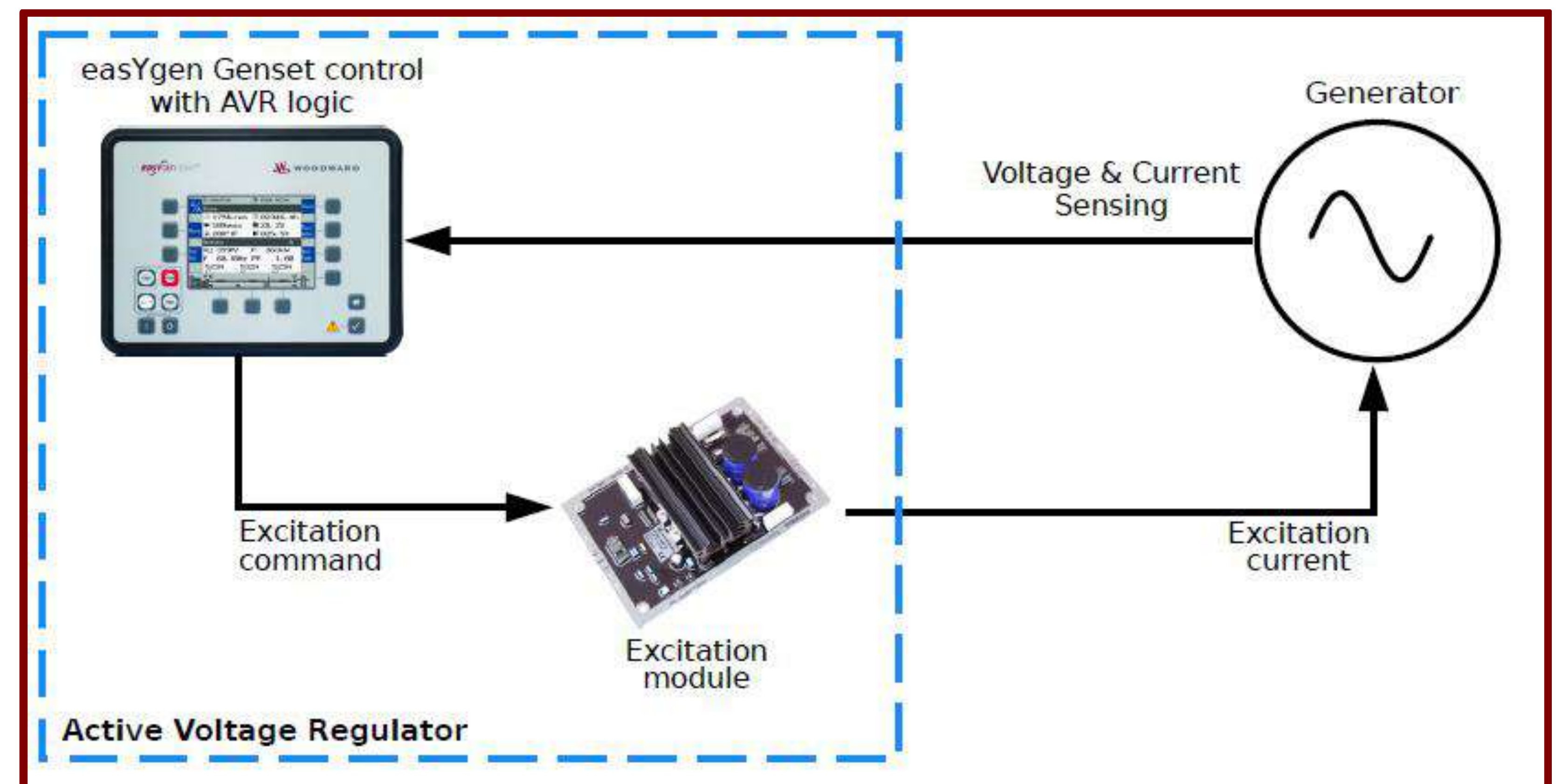
To control the PV inverter, the easYgen3000 XT calculates a variable PV load ref. [%]. This reference can be given in three possible ways to the PV inverter:

- As an **Analog output**
- As **Digital outputs** (0%, 30%, 60%, 100%...Ripple control)
- As a **Modbus TCP** value using the **Modbus Master** function built in the easYgen3000 XT to transfer a setpoint

### EX-10

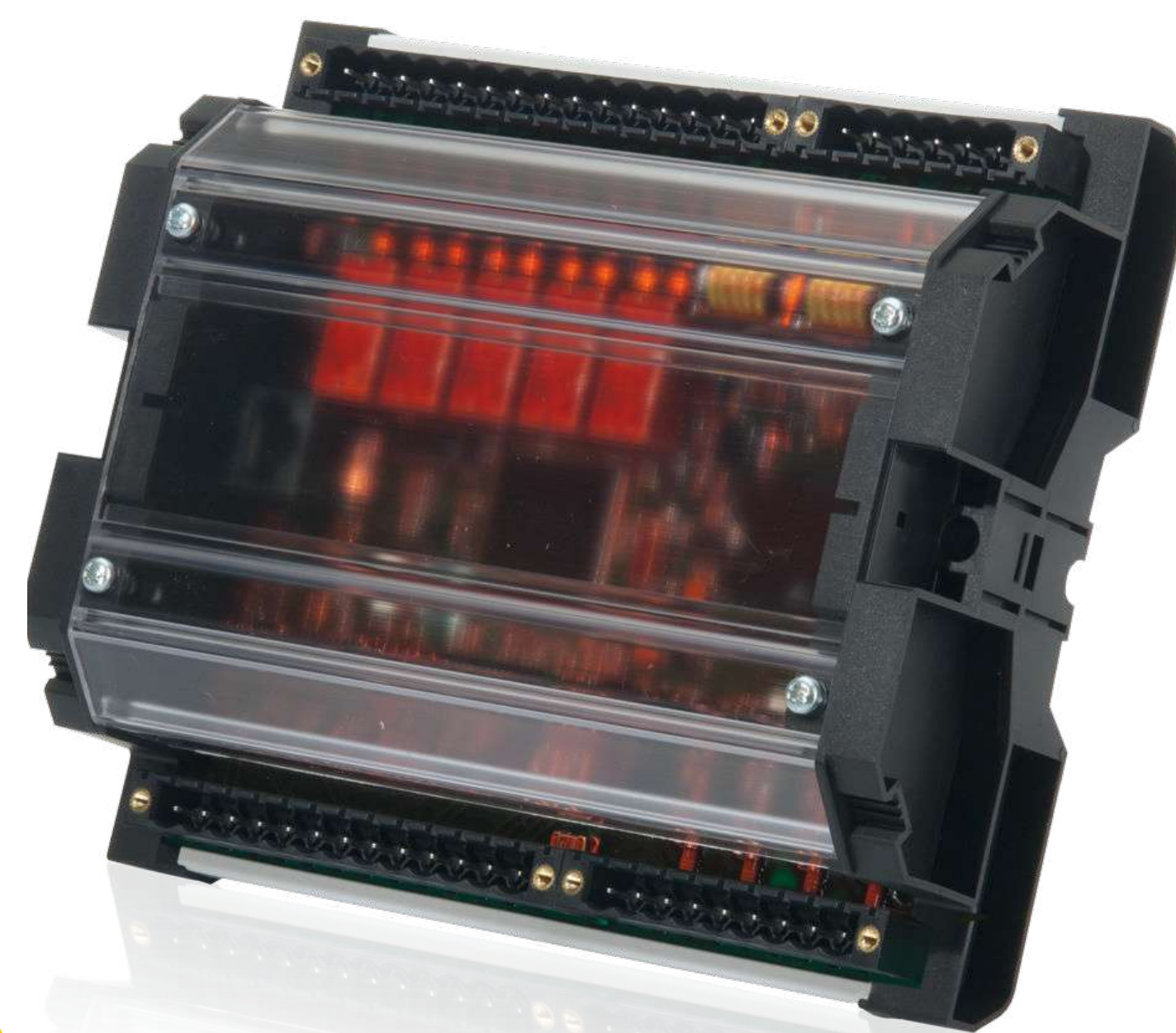
#### EXCITER APPLICATION

- The easYgen controls the excitation with PWM signal connected to EX-10
- EX-10 does not need Voltage and Current sensing
- All generator types covered: Self / Shunt Excitation, Internal / Auxiliary Winding Excitation, Permanent Magnet (PMG), Single or Three Phase



### easYprotec 1410

Voltage relay for  
Mains De-coupling



- 3 True RMS Voltage, Class 0.5 measurement accuracy
- O/U voltage & Assymetry (59/27, 47)
- O/U frequency (81 O/U)
- Phase shift (78)
- df/dt (ROCOF)
- QV Monitoring
- Voltage increase & under voltage monitoring for Fault ride through (FRT)