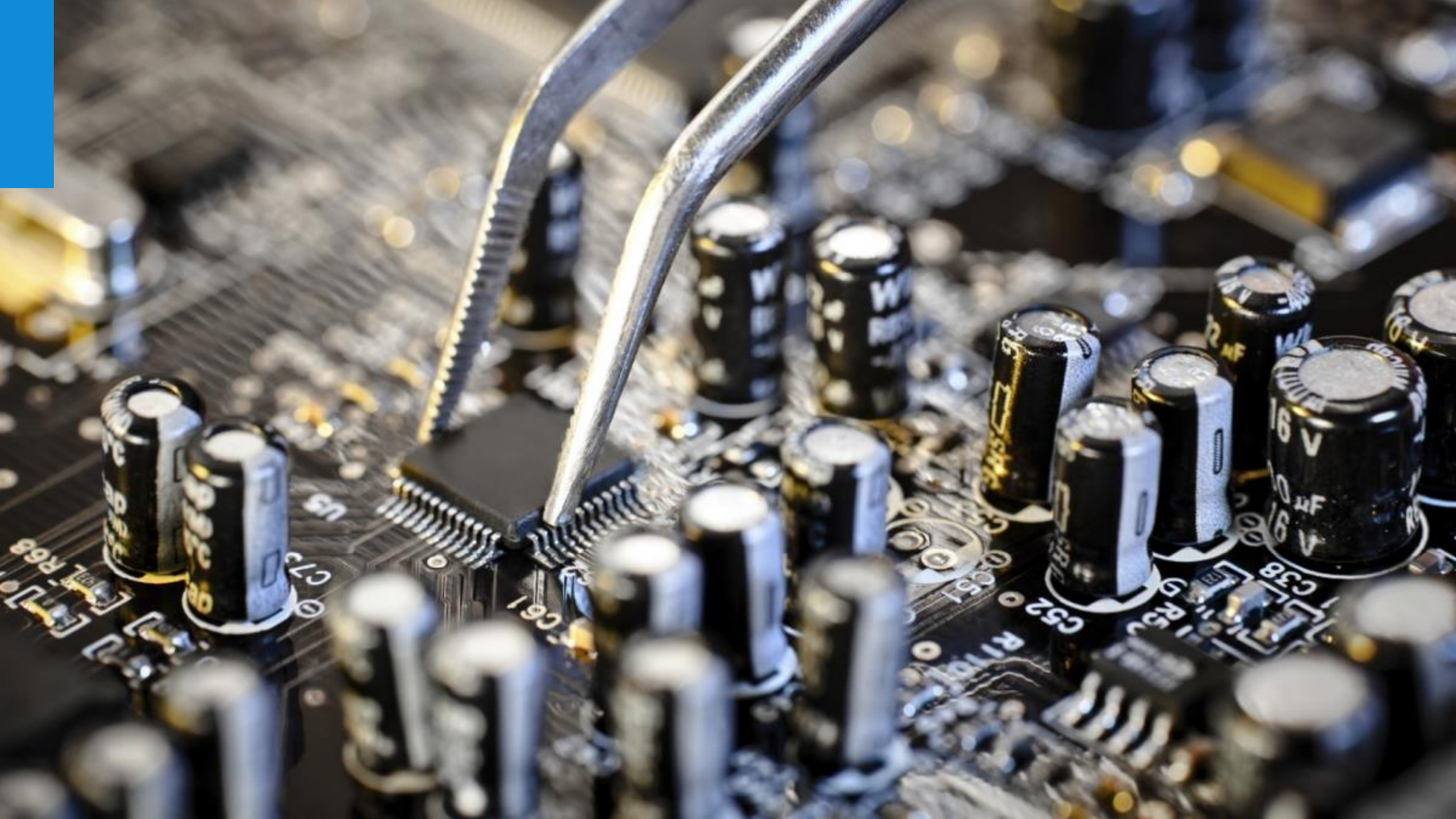


PV Systems - Components and Concepts

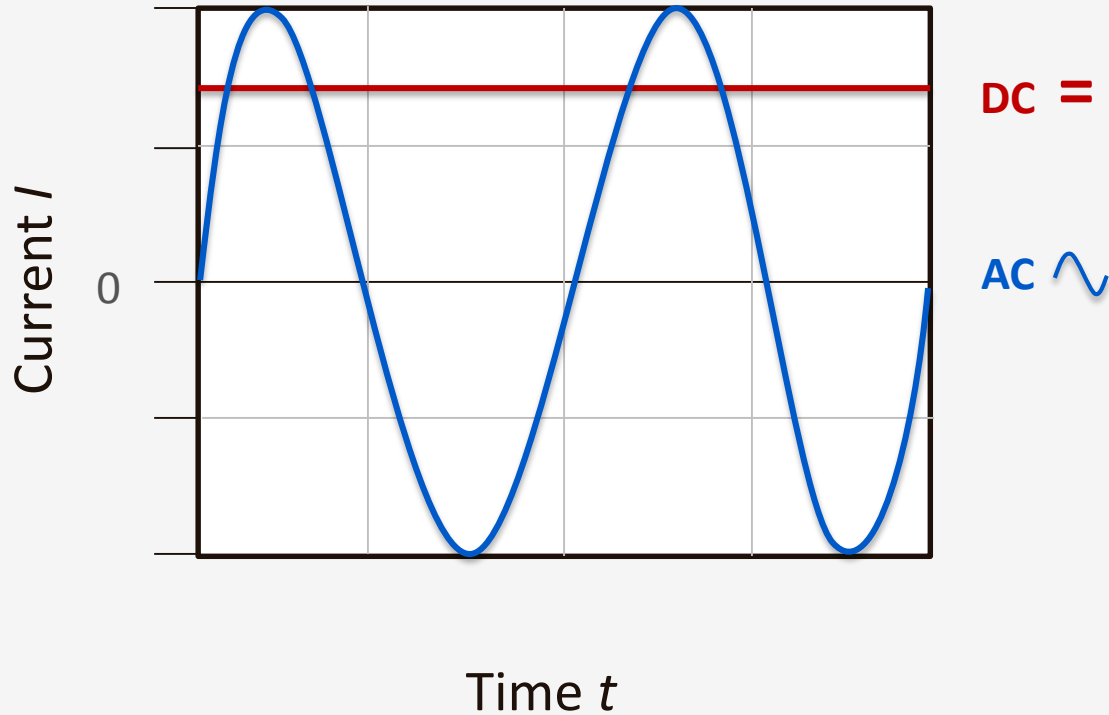
Inverters in PV Systems

Week 7.4

Arno Smets, Nishant Narayan

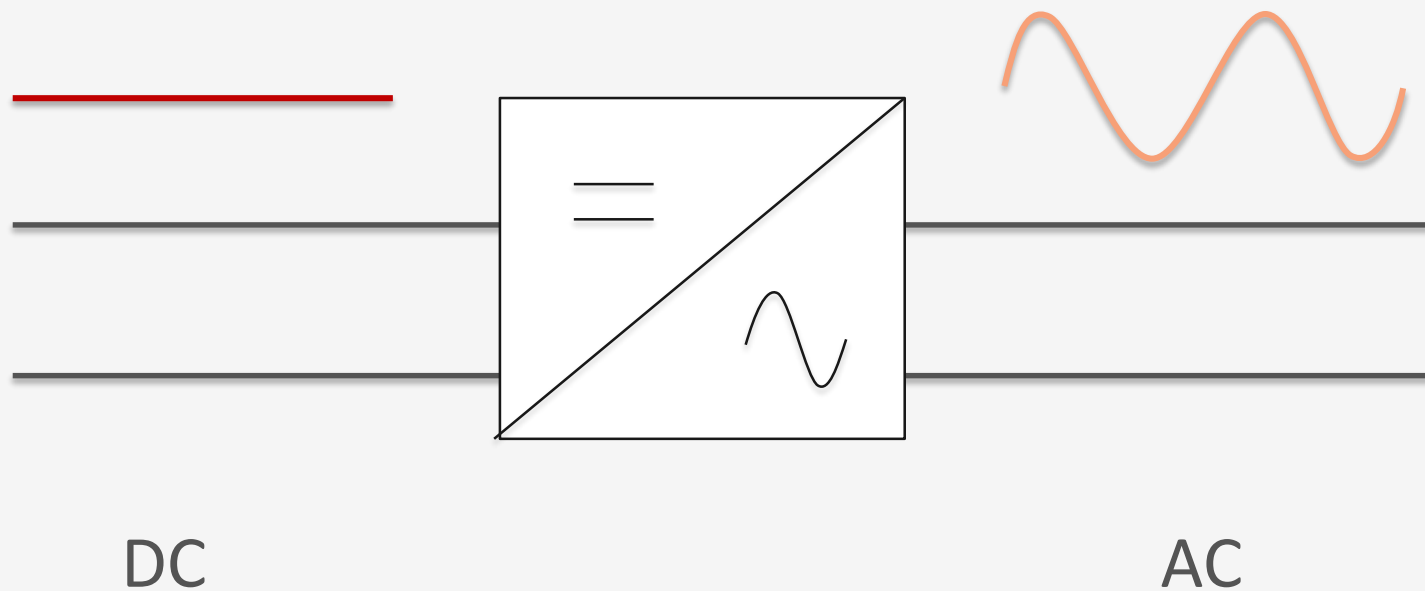


DC and AC current

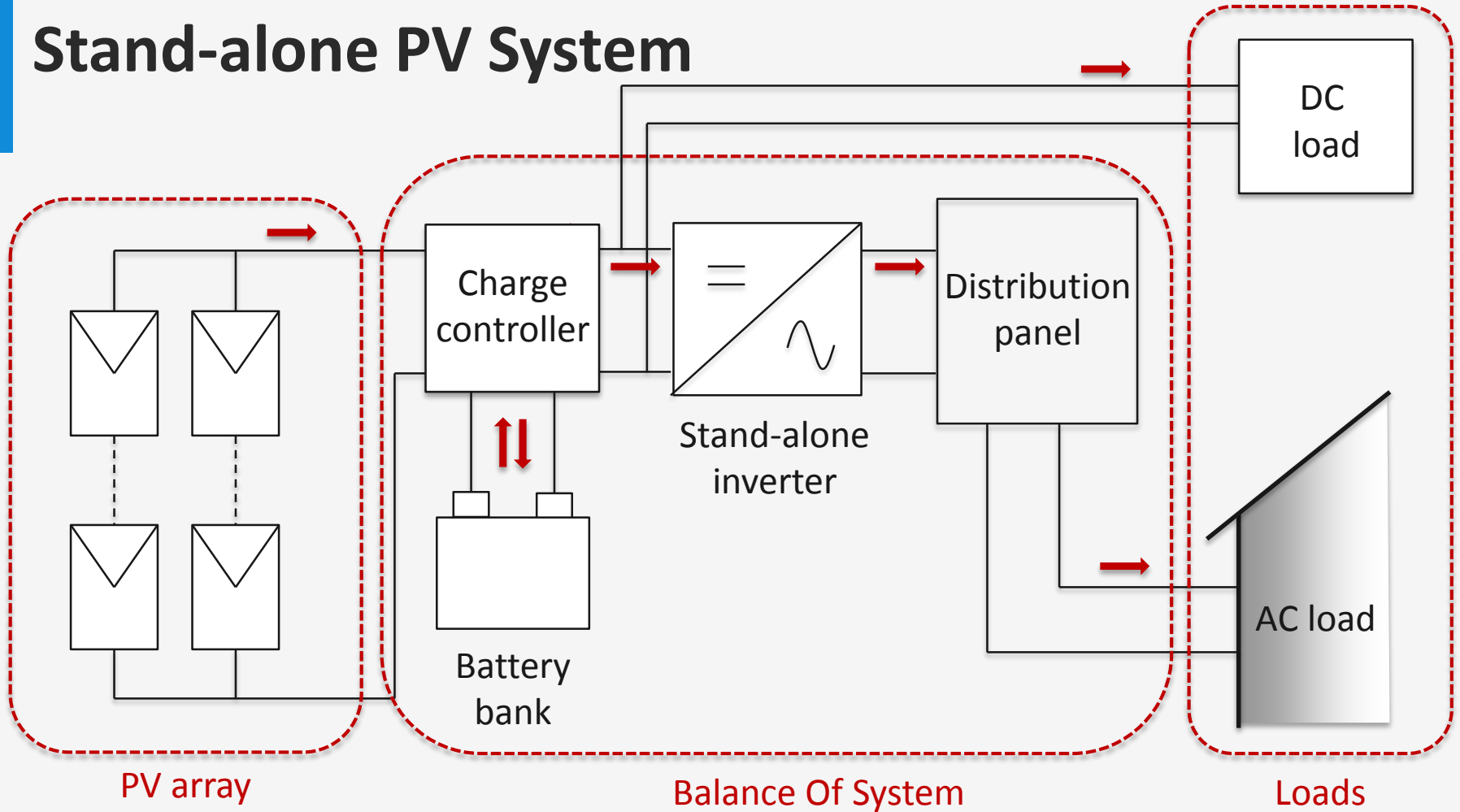




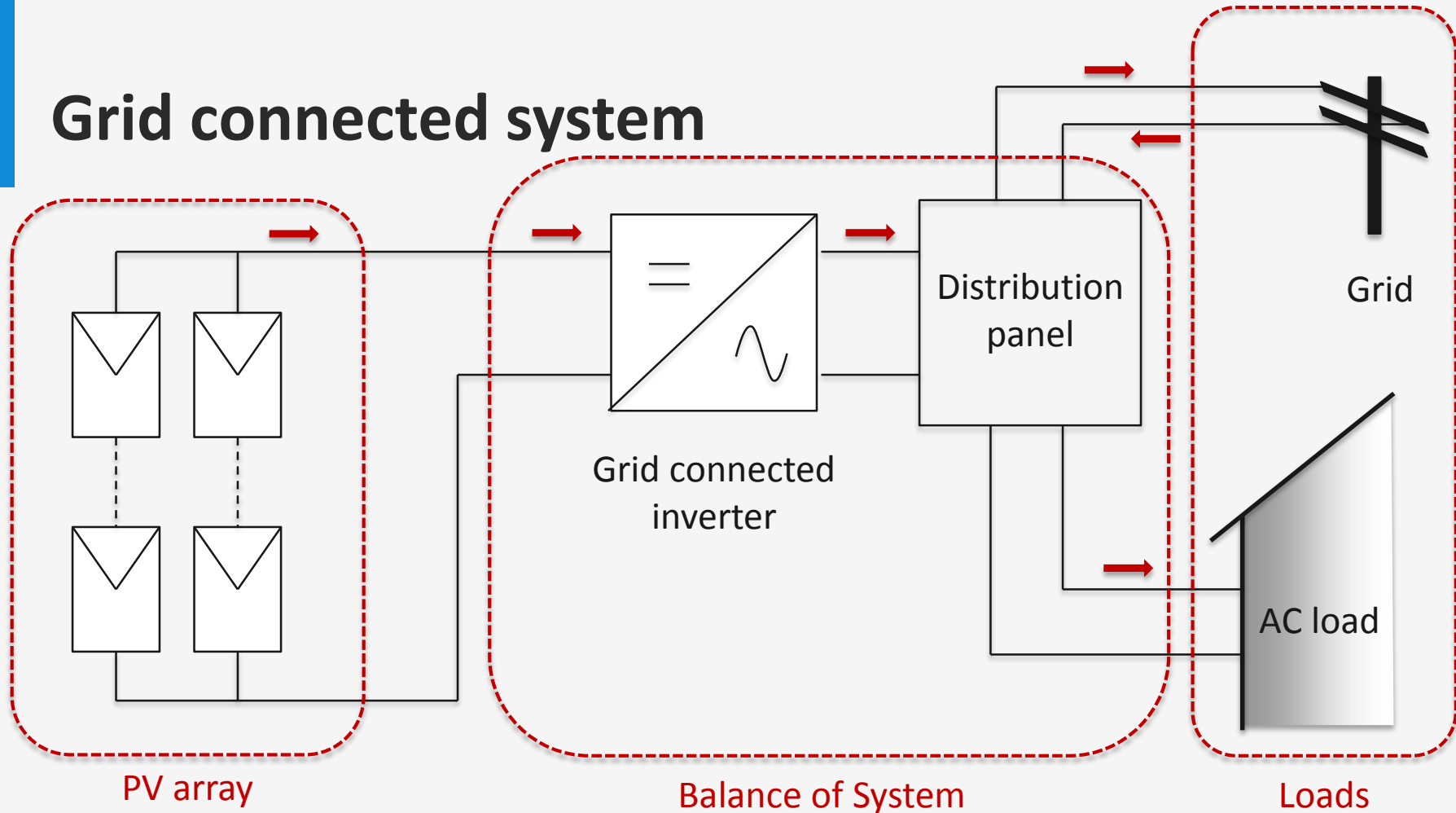
Inverter



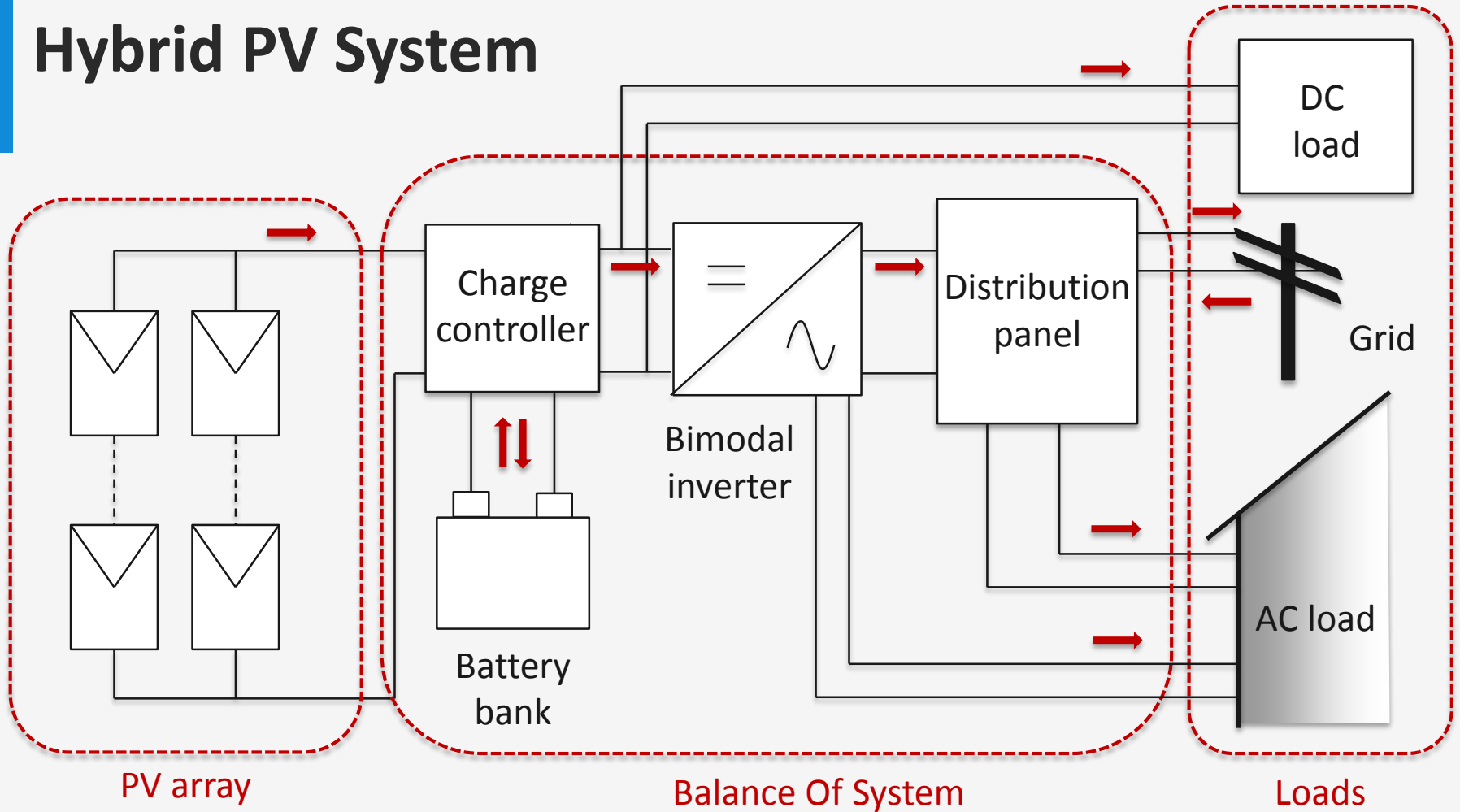
Stand-alone PV System



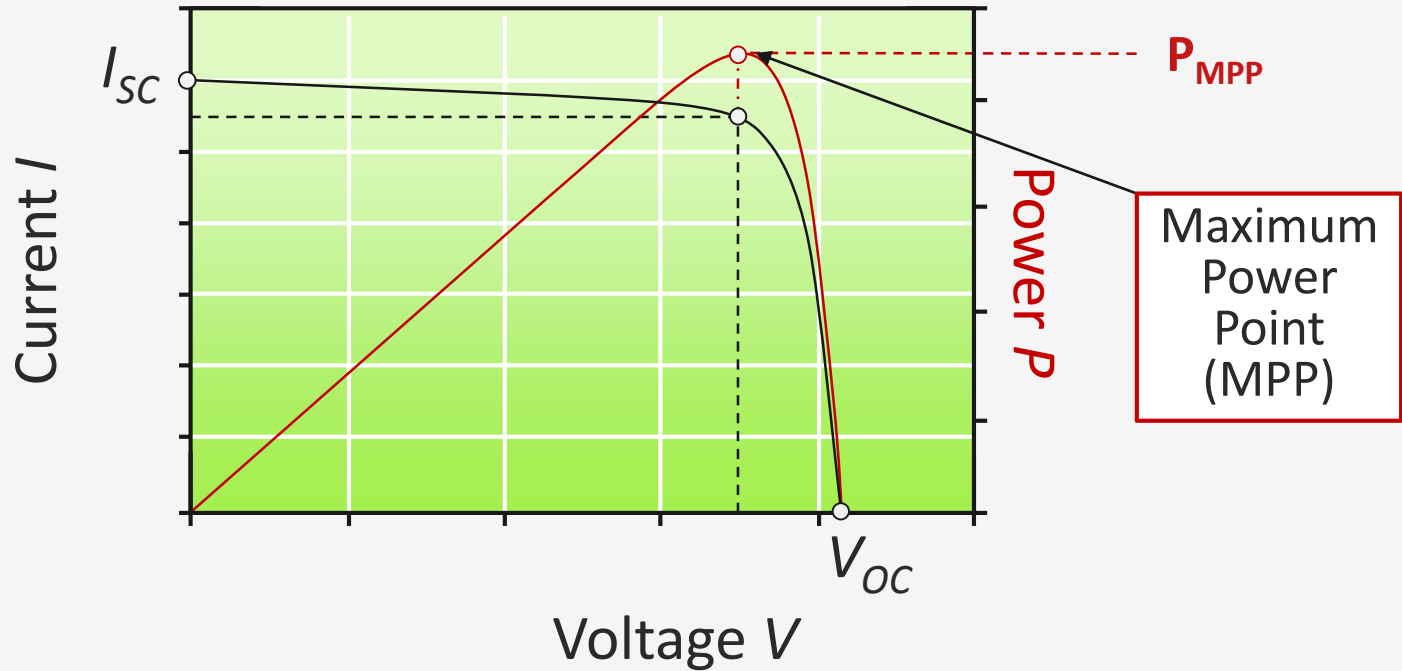
Grid connected system



Hybrid PV System

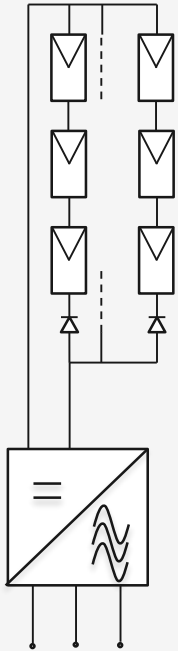


Generic I-V curve of a solar cell

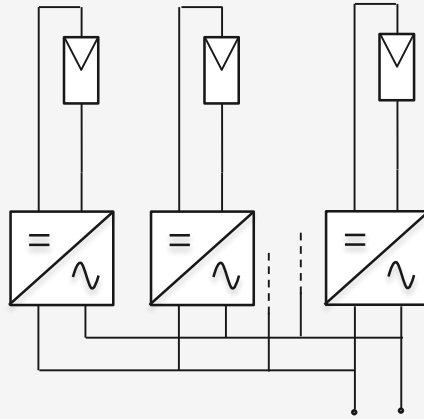


Implementation topologies

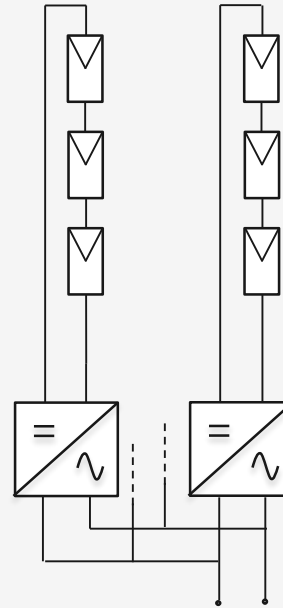
Central inverter



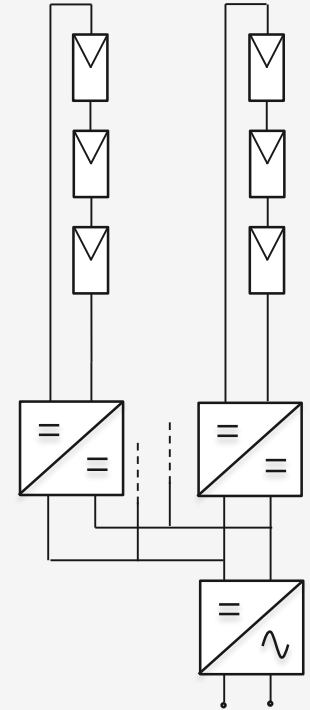
Module inverter



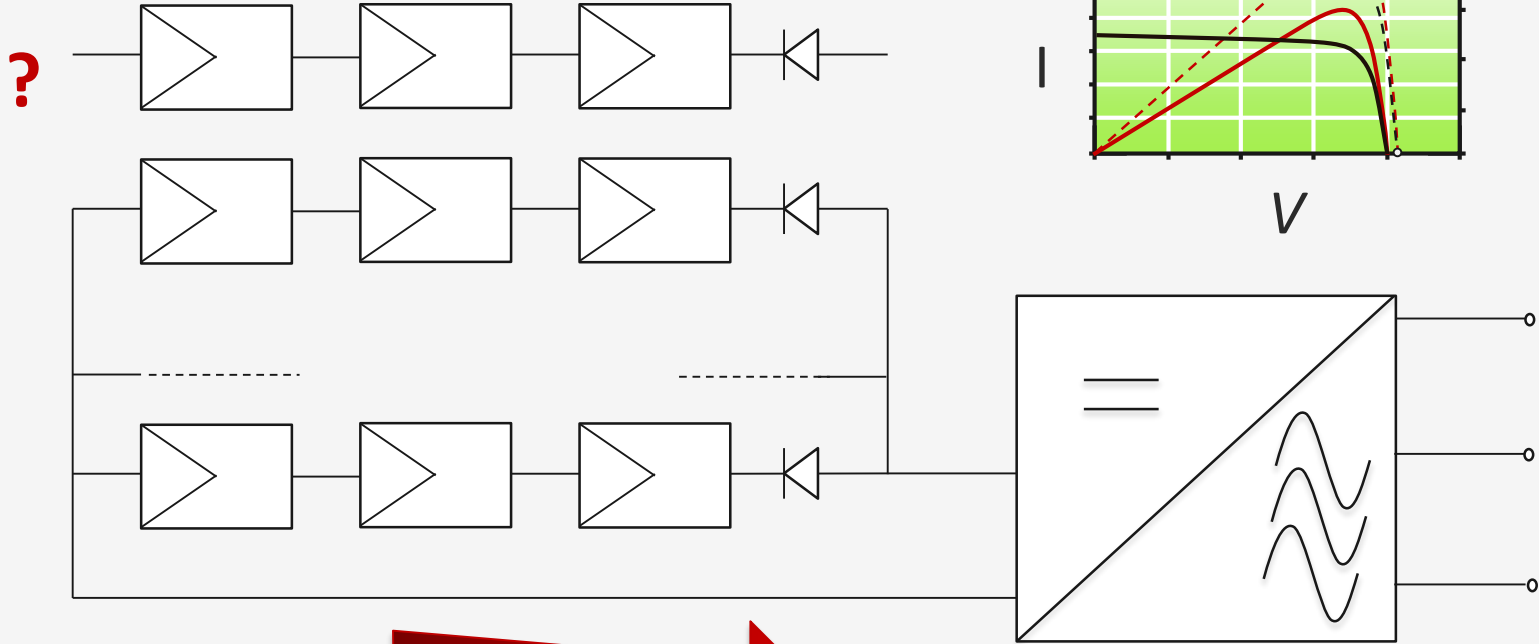
String inverter



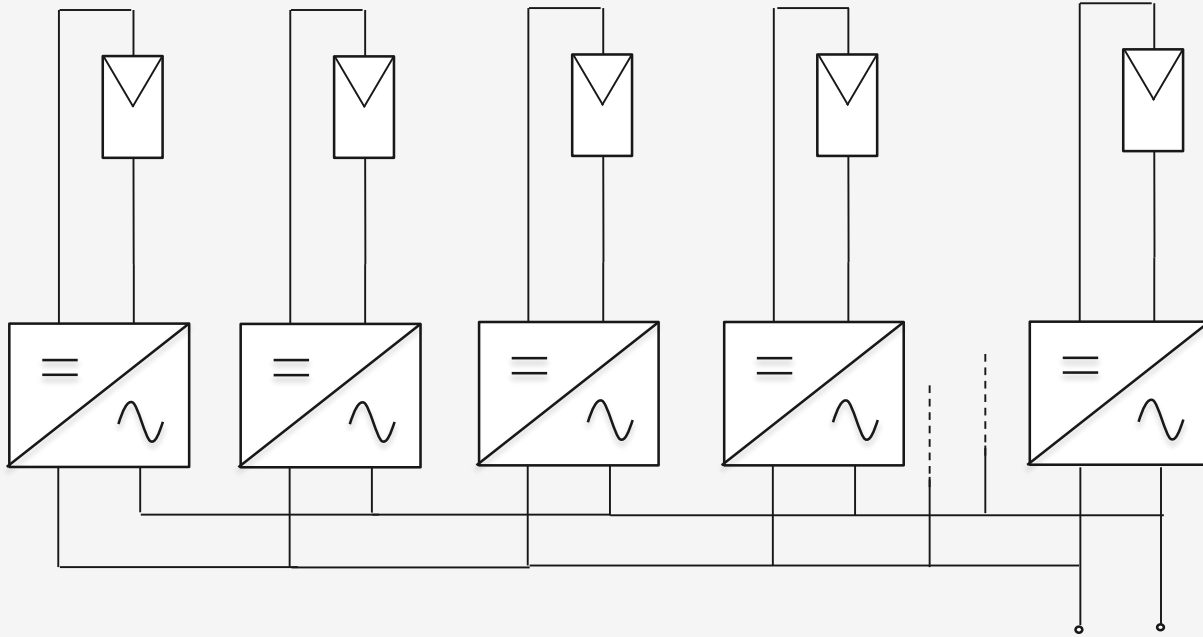
Multi-string inverter



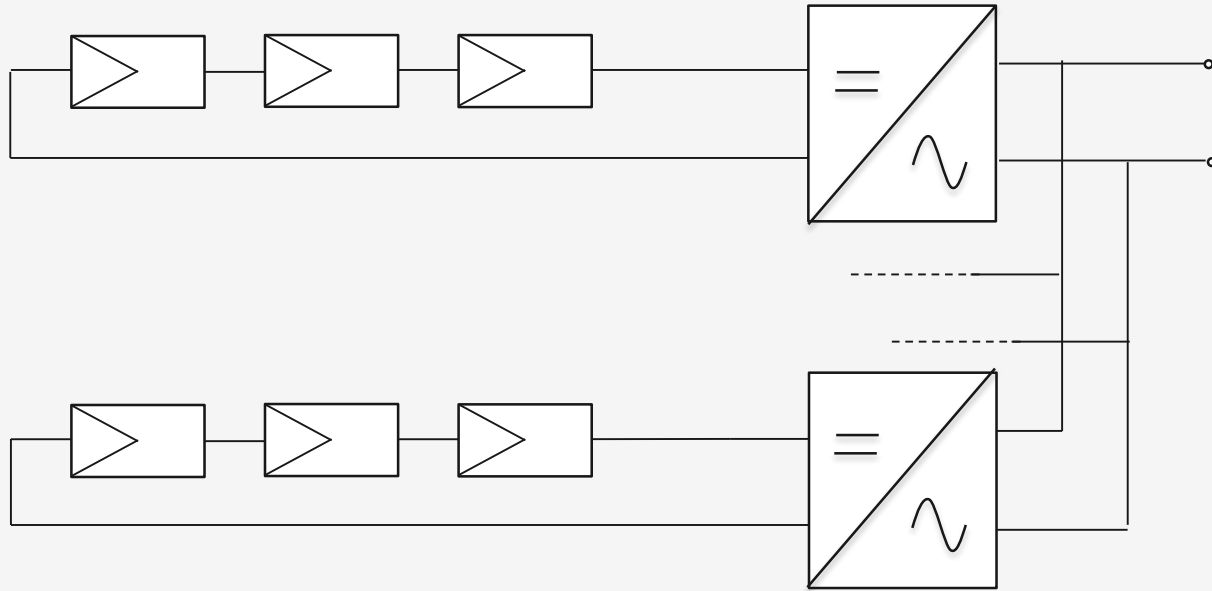
Central inverter



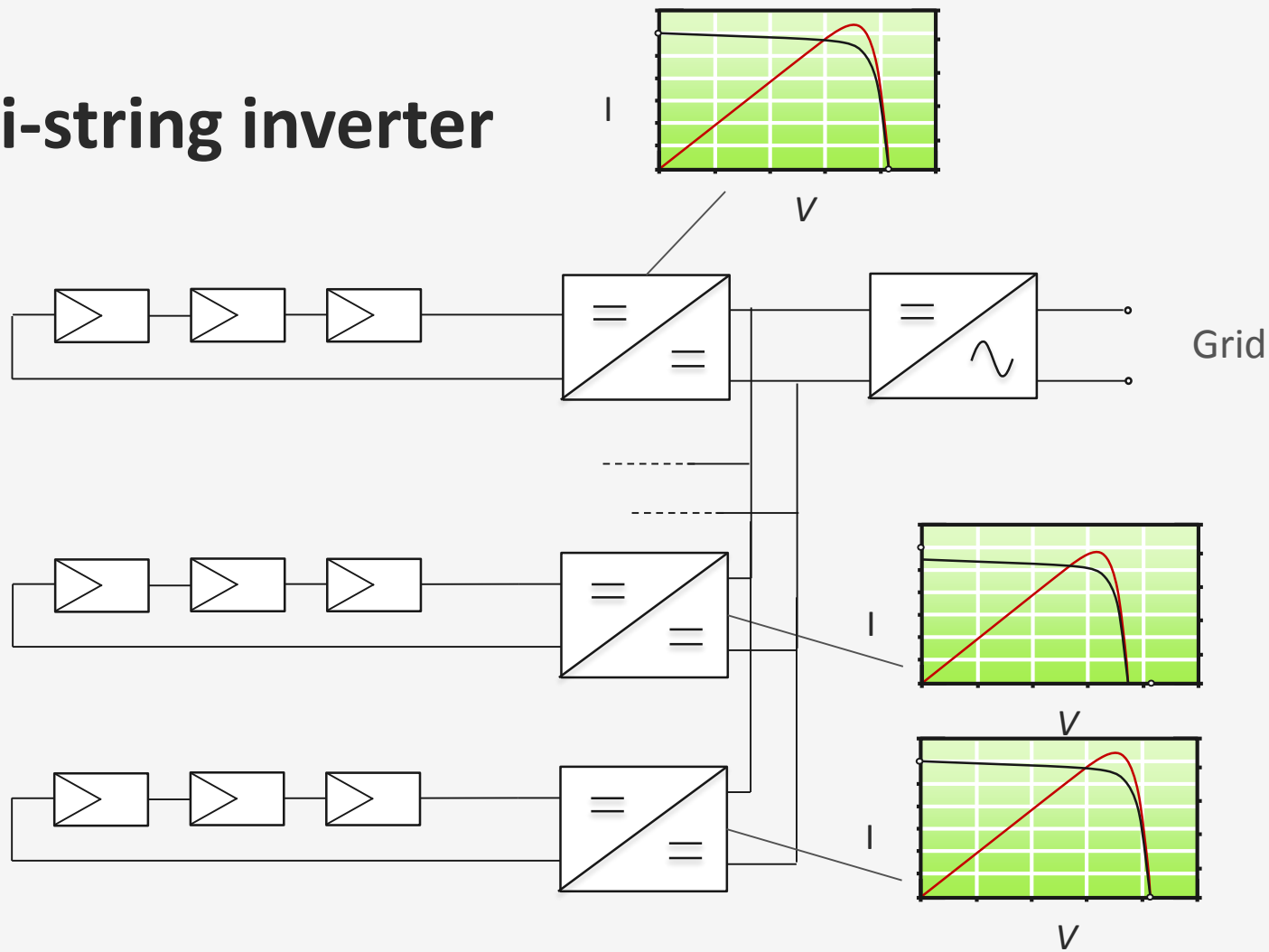
Module inverter



String inverter



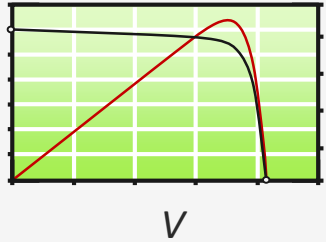
Multi-string inverter



Characteristics of a solar inverter



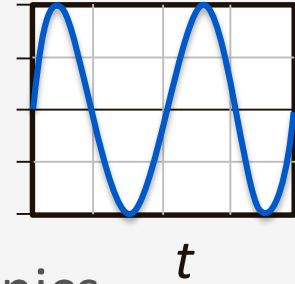
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MPPT

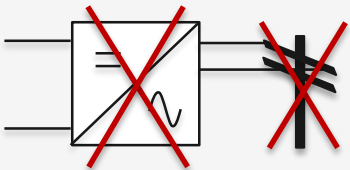


T, H_2O



Low harmonics

Anti-Islanding



Lifespan





Thank you for your attention!