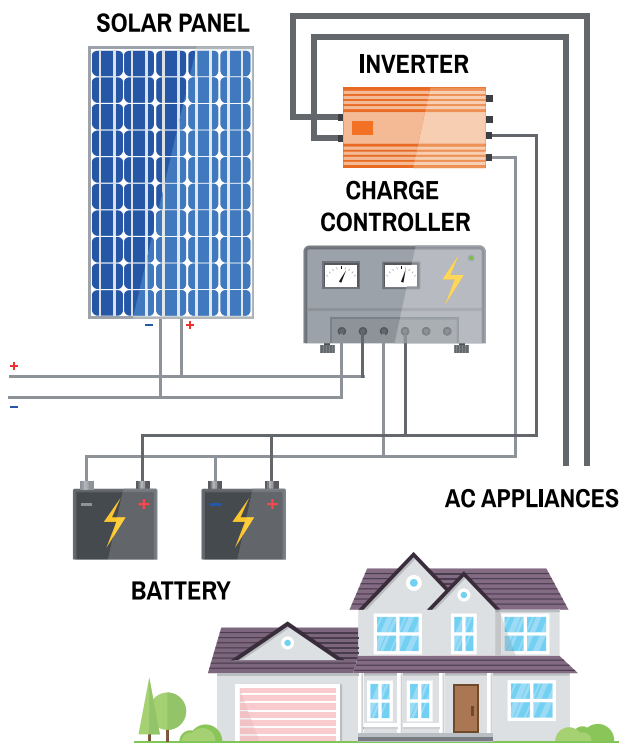


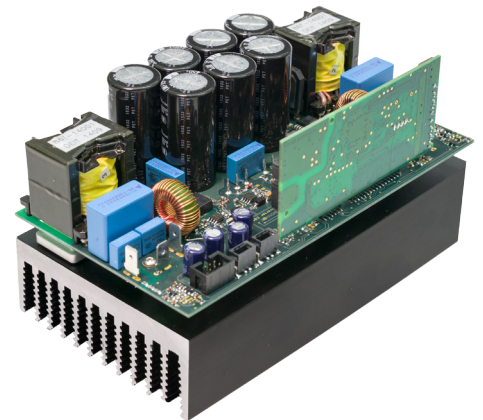
PFC/INVERTER FOR UPS

The PFC/Inverter module is part of an uninterruptable power supply (UPS) concept to build up reliable island grids. While the input power factor correction (PFC) ensures compliance to public grid standards, the inverter stage supplies any desired AC load connected to the output. The universal hardware platform can also support alternative use cases with bidirectional power flow to feed back energy to the grid.

In combination with our DAB based DC/DC converter for battery charging you can easily build up an independent, reliable and smart home grid! And connected to renewable energy sources, like photovoltaics or wind, it also helps to reduce energy costs by increasing your self-consumption capability.



- ▶ Increased power quality in combination with reliability in battery storage
- ▶ Bidirectional power flow capability for power trading



Main features

- ▶ Form factor optimized AC-to-AC UPS with DC link coupling interface
- ▶ Input and output stage based on totem-pole topology with SiC-MOSFETs
- ▶ Uni- or bidirectional power flow possible
- ▶ Active power factor control to support island grids

Technical Data

AC voltage range (in/out)	85...264 V _{AC} @50...60 Hz
DC link voltage	max. 450 V _{DC}
Max. output power	1800 W
Max. efficiency	>97%
Power factor	0.1 ... 0.99 (controllable)
Power flow	uni- or bidirectional
Dimension	180x100x60 mm
Cooling	heat sink with natural air convection