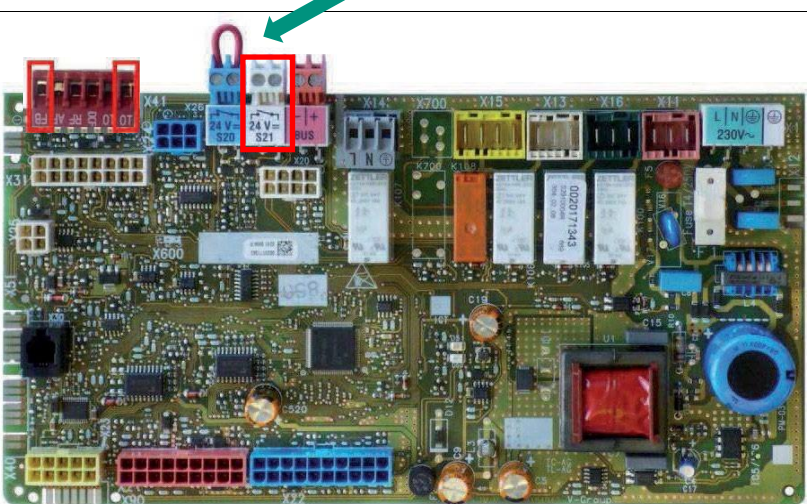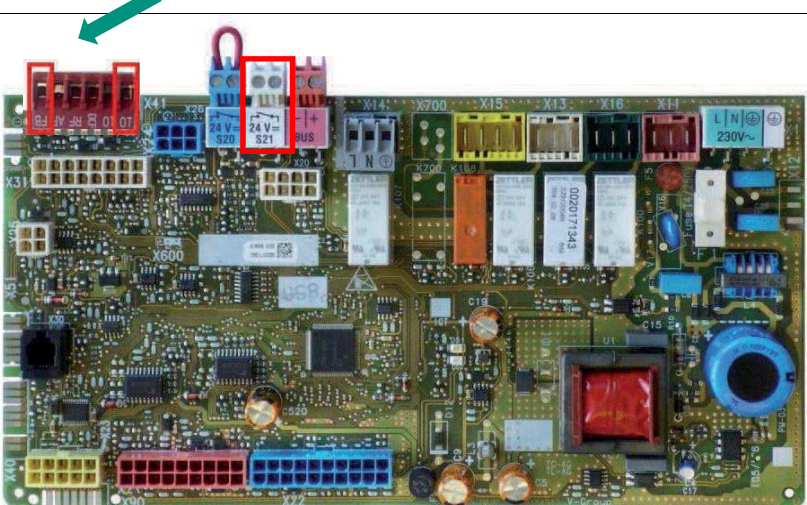# aroTHERM plus

EVU-Lock connection

PV-/SG-Ready connection

EVU-Lock connection

X106/S21 Terminal 1	A potential-free make contact with a switching capacity of 24 V/0.1 A. **Must be closed to lock the heat pump.**	

PV-/ SG-Ready connection

Multi functional input (ME) Terminal 2	The contact "FB and O" on plug X41 to be switched by an energy manager of the photovoltaic system.	

Power limits for a PV connection

Grenzwert PV-Ready
1700 W

Einstellungen -> Energiemanagement -> Grenzwert PV-Ready

Stellen Sie unter „Grenzwert PV-Ready" die elektrische Leistung des Gerätes ein, die an den PV-Ready Kontakt angeschlossen wird. soll. Dabei soll ein Offset von 200 – 300 W berücksichtigt werden.

Beispiel: El. Leistungsaufnahme Wärmepumpe 1.400 W
            + Offset 300 W

→ Einstellwert: 1700 W

Device	Unit	VWL 65/6	VWL 75/6	VWL 105/6	VWL 125/6
Max. power consumption A2 / W55	kW	0.8	1.5	1.6	2.2
Power setting on the PV inverter	kW	1.1	1.8	1.9	2.6

- **Operating mode 1** (1 switching state, with terminal solution: **1:0**):
  This operating mode is downward compatible with the RU blocking frequently switched at fixed times and comprises a maximum of 2 hours of "**hard**" **blocking** time.

- **Operating mode 2** (1 switching state, for terminal solutions: **0:0**):
  In this circuit, the heat pump runs in energy-efficient **normal mode** with proportional heat storage filling for the maximum two-hour EVU shutdown.

- **Operating mode 3** (1 switching state, with terminal solution **0:1**):
  In this operating mode, the heat pump runs within the controller in boosted operation for space heating and domestic hot water. This is not a definite start-up command, but a switch-on **recommendation according to today's boost**.

- **Operating mode 4** (1 switching state, with terminal solution **1:1**):
  This is a **definitive startup command**, insofar as it is possible within the framework of the control settings. For this operating mode, different control models must be adjustable on the controller for different tariff and utilization models:
  - Variant 1: The heat pump (compressor) is actively switched on.
  - Variant 2: The heat pump (compressor and additional electric heaters) is actively switched on, optional: higher temperature in the heat accumulators.

https://www.waermepumpe.de/fileadmin/user_upload/bwp_service/SG_ready/2023_SG-ready_Regularien_2.0_ENG.pdf