



+12V

TP204

Converter | Core:
- Existing:
- PQ 26/25 N97 TDK core (871-865877A0000R097)
- Associated bobbin (871-865878E1012D001)
- Used 21 AWG wiring
- Thinnest material gap
- 175uH, -9 turns
- Likely core and conduction loss: 5% of P_TRANSFER, mostly core loss. L301 B65878E1012D001 F301 F302 Q302 Battery Protection System Fuse_Small Fuse_Small Solar Array SW_H J301 J302 XT60PW-M Q301 XT60PW-M TP301 SW_L C301 C302 2.2uF 15uF Voltage Sensor G1D 1 2.2uF O VSW_TP V_ARR-D LOV_BATT-Current Sensor Current Sensor $\dot{}$ GND Gary Hallock Jacob Pustilnik Matthew Yu LHR Solar Sheet: /converter/ File: converter.kicad_sch Title: Sunscatter MPPT Size: A4 Date: 2023-07-21 Rev: v0.2.0 KiCad E.D.A. kicad 7.0.6-7.0.6~ubuntu22.04.1 ld: 3/6





