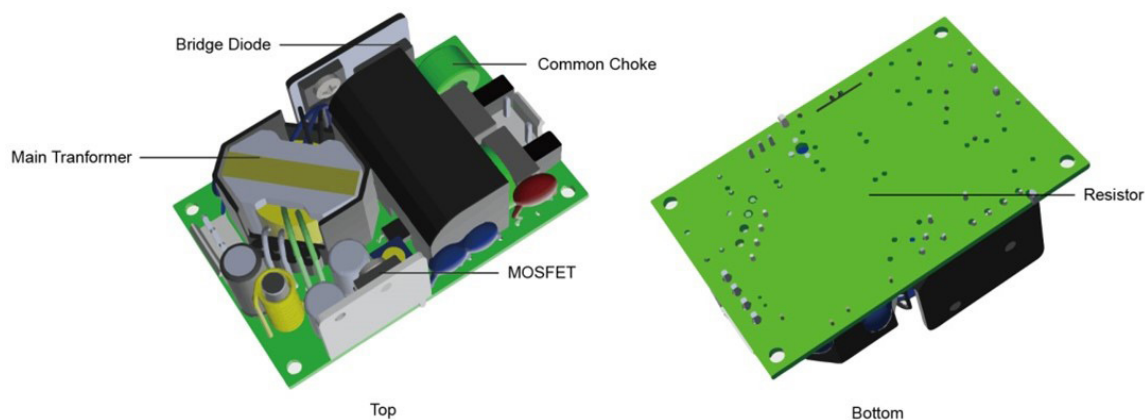


Thermal Consideration

Max. temperature of key components

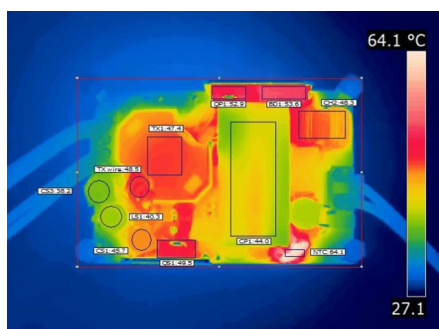


| Component | Bridge Diode | Common Choke | MOSFET | Resistor | Main Transformer |
|------------------|--------------|--------------|--------|----------|------------------|
| Temp. limit [°C] | 120 | 125 | 120 | 120 | 125 |

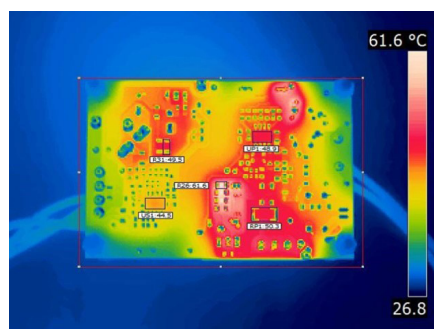
Note: - TPP 40-112A-J is chosen as a representative model in this document.

Thermal cam images

115 Vin; Full Load; Natural Convection; Top View

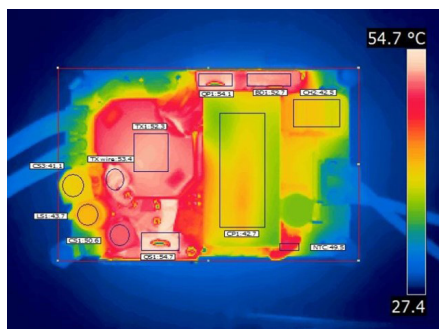


115 Vin; Full Load; Natural Convection; Bottom View

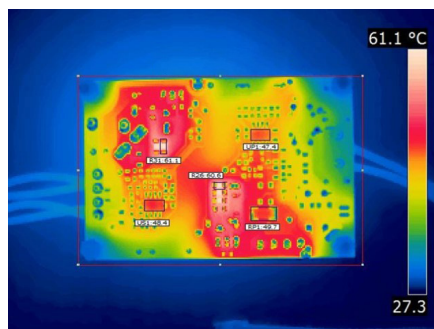


| Component | TX1 wire | TX1 core | NTC | BD1 | CH2 | QP1 | QS1 | CP1 | CS1 | CS3 | LS1 | UP1 | US1 | PR1 | R26 | R31 |
|------------|----------|----------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| Temp. [°C] | 48.5 | 47.4 | 64.1 | 53.6 | 48.3 | 52.9 | 49.5 | 44 | 45.7 | 38.2 | 40.3 | 48.9 | 44.5 | 50.3 | 61.6 | 49.5 |

230 Vin; Full Load; Natural Convection; Top View



230 Vin; Full Load; Natural Convection; Bottom View



| Component | TX1 wire | TX1 core | NTC | BD1 | CH2 | QP1 | QS1 | CP1 | CS1 | CS3 | LS1 | UP1 | US1 | PR1 | R26 | R31 |
|------------|----------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Temp. [°C] | 53.4 | 52.3 | 49.5 | 52.7 | 42.5 | 54.1 | 54.7 | 42.7 | 50.6 | 41.1 | 43.7 | 47.4 | 48.4 | 49.7 | 60.6 | 61.1 |