

8000124311 PV combiner box thermal report

PV 224S0F3CXXV000TXPX15PWW

INPUT DATA

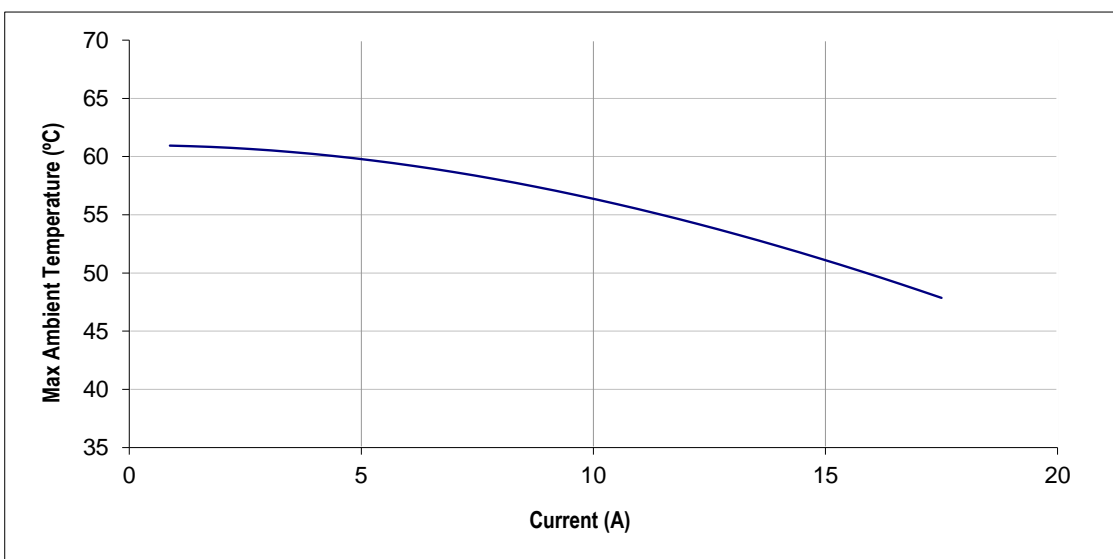
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|---|--|
| Enclosure model | 1056 x 852 x 350 mm |
| Number of MPPT | 1 |
| Switch-disconnector model (per MPPT) | 400A 1500V |
| Maximum current (per MPPT) | 420 A |
| Number of inputs (per MPPT) | 24 |
| Fuse-link model | 30A gPV 1500V 10x85mm |
| Number of monitoring devices (per MPPT) | 0 |
| Type of mounting | Against wall, all other sides detached |
| Maximum allowed internal temperature | 70 °C |
| Combined inputs | 1 |
| Height (A) | 1056 mm |
| Width (B) | 852 mm |
| Depth (C) | 350 mm |
| Effective cooling surface Ae of the enclosure | 2.34 m ² |

RESULTS

| | |
|--|---------|
| Ambient temperature (no direct sunlight) | 35 °C |
| Rated current per input at 35°C | 17.50 A |
| Power dissipated by components (except wiring) | 112 W |
| Power dissipated by wiring | 54 W |
| Total dissipated power | 166 W |
| Temperature rise, mid height | 18 °C |
| Temperature rise, top | 22 °C |
| Internal temperature, top | 57 °C |

CURRENT RATINGS

| | |
|---------|---------|
| At 35°C | 17.50 A |
| At 40°C | 17.50 A |
| At 45°C | 17.50 A |
| At 50°C | 15.88 A |



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects