

8000135048 PV combiner box thermal report

PV 212SXFXCXXV0O1TA1PA15LWW

INPUT DATA

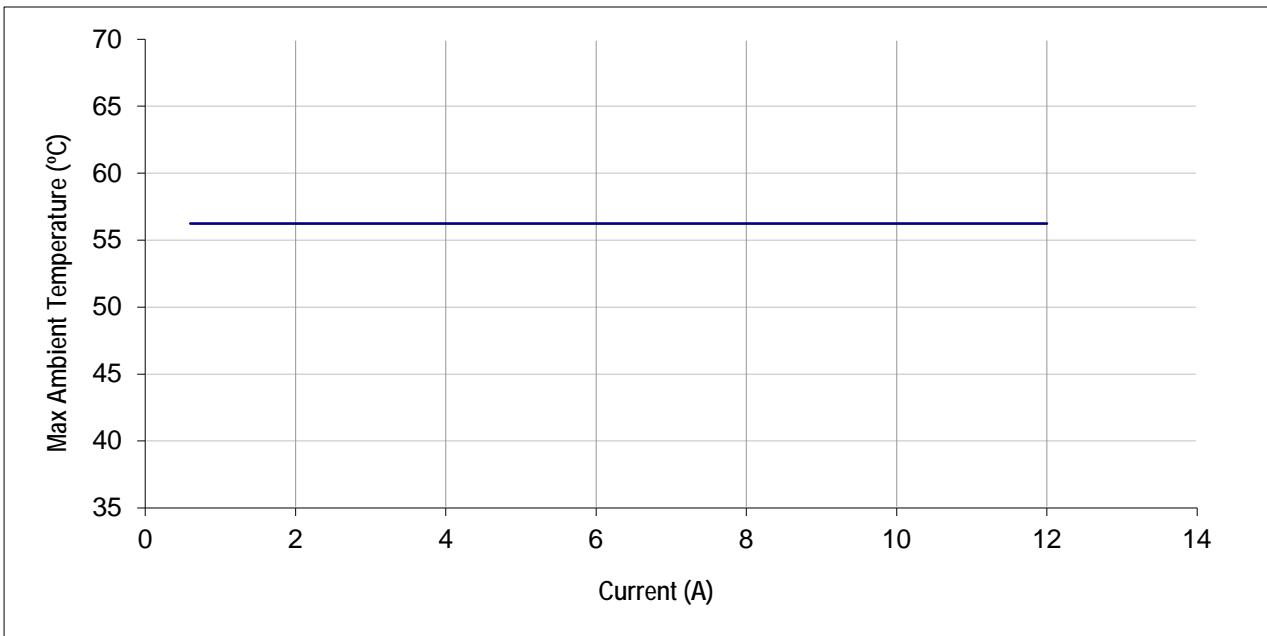
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|--|--|
| Enclosure model | 558 x 302 x 210 mm |
| Number of MPPT | 1 |
| Switch-disconnector model (per MPPT) | no switch-disconnector |
| Maximum current (per MPPT) | 144 A |
| Number of inputs (per MPPT) | 12 |
| Fuse-link model | no fuse |
| Number 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) | 558 mm |
| Width (B) | 302 mm |
| Depth (C) | 210 mm |
| Effective cooling surface A_e of the enclosure | 0,54 m ² |

RESULTS

| | |
|--|---------|
| Ambient temperature (no direct sunlight) | 35 °C |
| Rated current per input at 35°C | 12,00 A |
| Power dissipated by components (except wiring) | 5 W |
| Power dissipated by wiring | 15 W |
| Total dissipated power | 20 W |
| Temperature rise, mid height | 11 °C |
| Temperature rise, top | 14 °C |
| Internal temperature, top | 49 °C |

CURRENT RATINGS

| | |
|---------|---------|
| At 35°C | 12,00 A |
| At 40°C | 12,00 A |
| At 45°C | 12,00 A |
| At 50°C | 12,00 A |



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects