

8000069106 PV combiner box thermal report

PV 40401S2V1C1A1ES

INPUT DATA

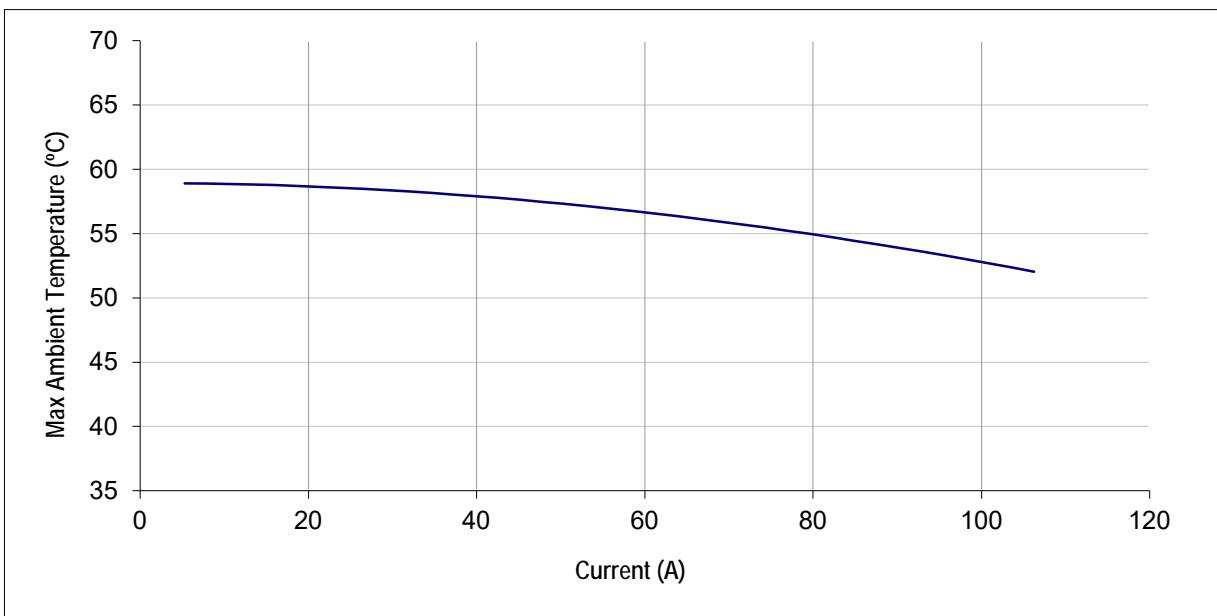
Enclosure model	1056 x 852 x 350 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	no switch-disconnector
Maximum current (per MPPT)	425 A
Number of inputs (per MPPT)	4
Fuse-link model	125A gG NH1
Number of Transclinic xi+ devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70 °C
Combined inputs	1
Height (A)	1056 mm
Width (B)	852 mm
Depth (C)	350 mm
Effective cooling surface A_e of the enclosure	2,34 m ²

RESULTS

Ambient temperature (no direct sunlight)	35 °C
Rated current per input at 35°C	106,25 A
Power dissipated by components (except wiring)	58 W
Power dissipated by wiring	70 W
Total dissipated power	128 W
Temperature rise, mid height	14 °C
Temperature rise, top	18 °C
Internal temperature, top	53 °C

CURRENT RATINGS

At 35°C	106,25 A
At 40°C	106,25 A
At 45°C	106,25 A
At 50°C	106,25 A



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects