

8000057081 PV combiner box thermal report

PV 220S0F3CXXV003TXPX15PFJP

INPUT DATA

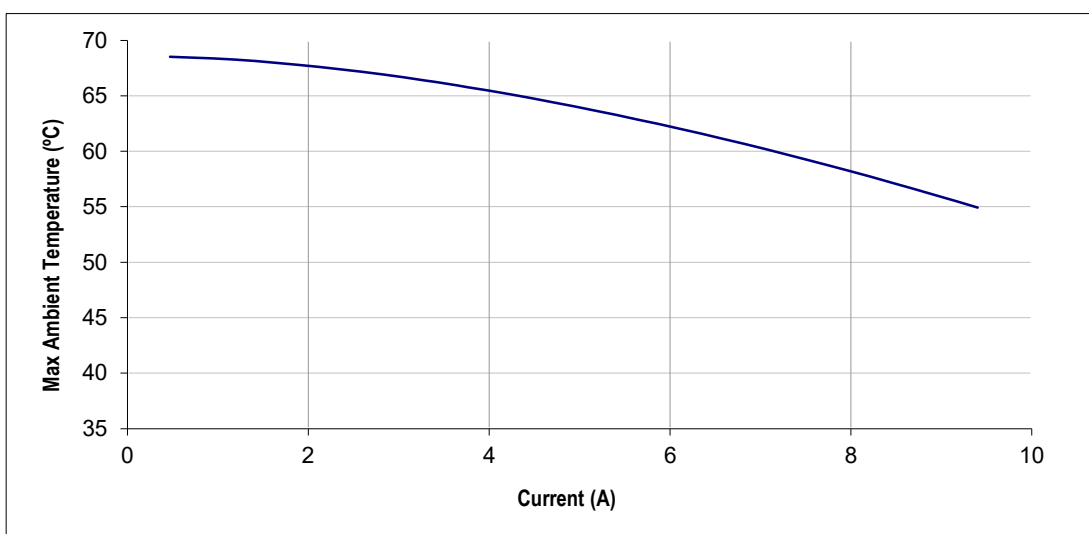
Enclosure model	835 x 635 x 300 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	400A 8P 1500V (4poles)
Maximum current (per MPPT)	188 A
Number of inputs (per MPPT)	20
Fuse-link model	15A gPV 1500V 10x85mm
Number of Transclenic xi+ devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70 °C
Combined inputs	1
Height (A)	300 mm
Width (B)	635 mm
Depth (C)	835 mm
Effective cooling surface Ae of the enclosure	1.46 m ²

RESULTS

Ambient temperature (no direct sunlight)	54 °C
Rated current per input at 54°C	9.40 A
Power dissipated by components (except wiring)	75 W
Power dissipated by wiring	4 W
Total dissipated power	80 W
Temperature rise, mid height	14 °C
Temperature rise, top	15 °C
Internal temperature, top	69 °C

CURRENT RATINGS

At 35°C	9.40 A
At 40°C	9.40 A
At 45°C	9.40 A
At 50°C	9.40 A



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects