

8000115485 PV combiner box thermal report

PV 212S0F3CXXV100TA1PA15LWW

INPUT DATA

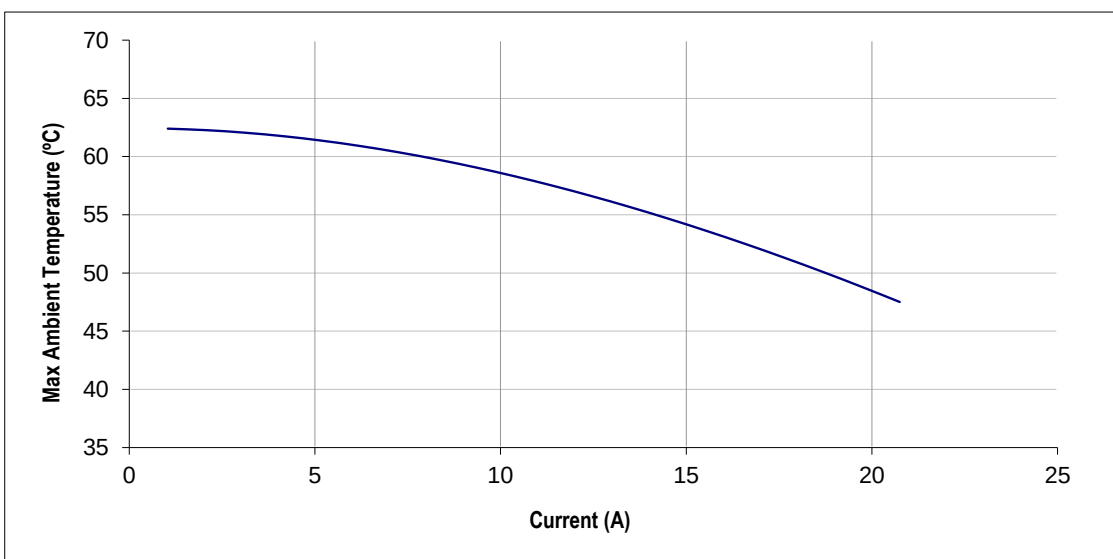
Enclosure model	636 x 847 x 300 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	400A 1500V
Maximum current (per MPPT)	249 A
Number of inputs (per MPPT)	12
Fuse-link model	32A gPV 1500V 10x85mm
Number of monitoring devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70 °C
Combined inputs	1
Height (A)	636 mm
Width (B)	847 mm
Depth (C)	300 mm
Effective cooling surface Ae of the enclosure	1.45 m ²

RESULTS

Ambient temperature (no direct sunlight)	35 °C
Rated current per input at 35°C	20.75 A
Power dissipated by components (except wiring)	85 W
Power dissipated by wiring	23 W
Total dissipated power	108 W
Temperature rise, mid height	18 °C
Temperature rise, top	22 °C
Internal temperature, top	57 °C

CURRENT RATINGS

At 35°C	20.75 A
At 40°C	20.75 A
At 45°C	20.75 A
At 50°C	18.75 A



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects