

8000101214 PV combiner box thermal report

PV 212S0F3CXXV0O0TA1PA15PWW

INPUT DATA

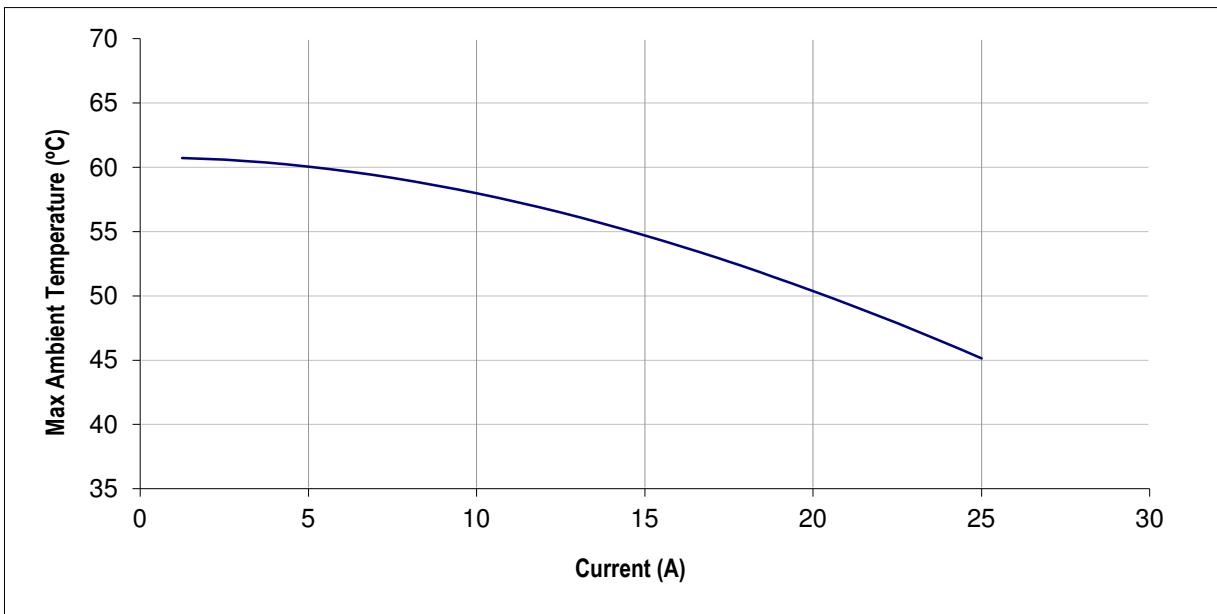
Enclosure model	1056 x 852 x 350 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	400A 1500V
Maximum current (per MPPT)	300 A
Number of inputs (per MPPT)	12
Fuse-link model	40A gPV 1500V 22x58mm
Number of monitoring devices (per MPPT)	1
Type of mounting	Against wall, all other sides detached
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	25.00 A
Power dissipated by components (except wiring)	141 W
Power dissipated by wiring	50 W
Total dissipated power	192 W
Temperature rise, mid height	20 °C
Temperature rise, top	25 °C
Internal temperature, top	60 °C

CURRENT RATINGS

At 35°C	25.00 A
At 40°C	25.00 A
At 45°C	25.00 A
At 50°C	20.39 A



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects