

**8000068263 PV combiner box thermal report**

PV 224S0F4CXXV000TXPX15PWW

**INPUT DATA**

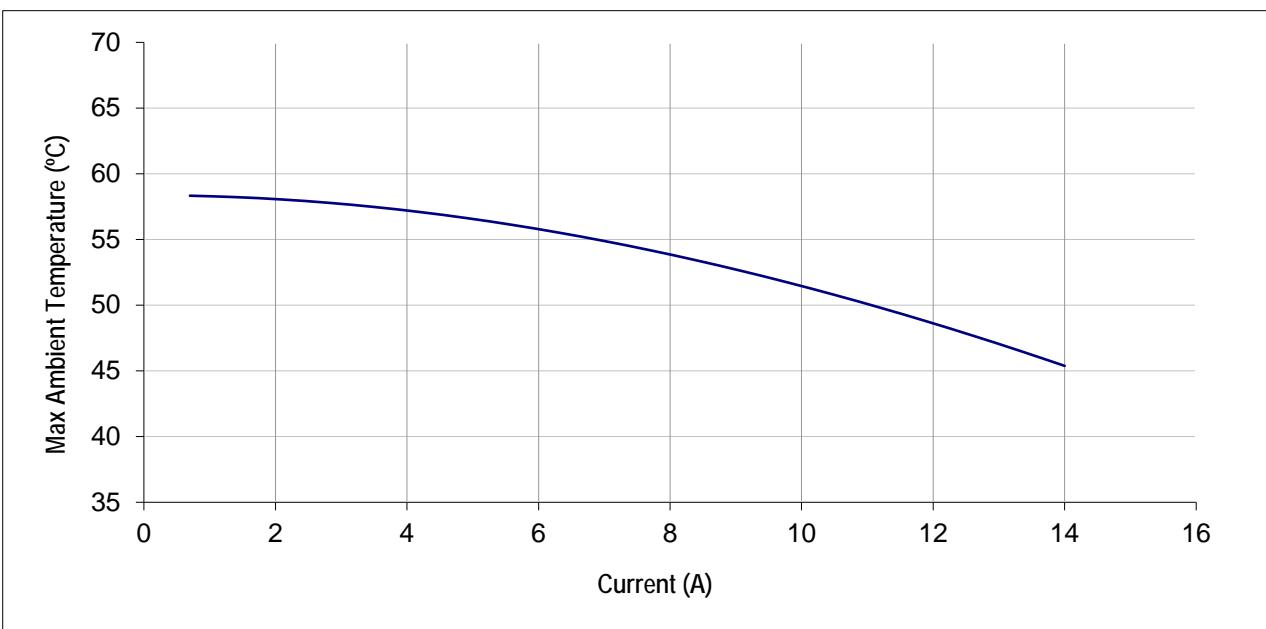
Enclosure model	847 x 636 x 300 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	400A 1500V
Maximum current (per MPPT)	336 A
Number of inputs (per MPPT)	24
Fuse-link model	25A gPV 1500V 10x85mm
Number of Transclinic xi+ devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70 °C
Combined inputs	1
Height (A)	847 mm
Width (B)	636 mm
Depth (C)	300 mm
Effective cooling surface $A_e$ of the enclosure	1,48 m <sup>2</sup>

**RESULTS**

Ambient temperature (no direct sunlight)	35 °C
Rated current per input at 35°C	14,00 A
Power dissipated by components (except wiring)	75 W
Power dissipated by wiring	48 W
Total dissipated power	123 W
Temperature rise, mid height	20 °C
Temperature rise, top	25 °C
Internal temperature, top	60 °C

**CURRENT RATINGS**

At 35°C	14,00 A
At 40°C	14,00 A
At 45°C	14,00 A
At 50°C	11,06 A

**NOTES**

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects