

8000078118 PV combiner box thermal report

PV 216S0F3CXXV000TPX15PWW

INPUT DATA

Enclosure model	747 x 536 x 300 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	400A 1500V
Maximum current (per MPPT)	224 A
Number of inputs (per MPPT)	16
Fuse-link model	25A 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

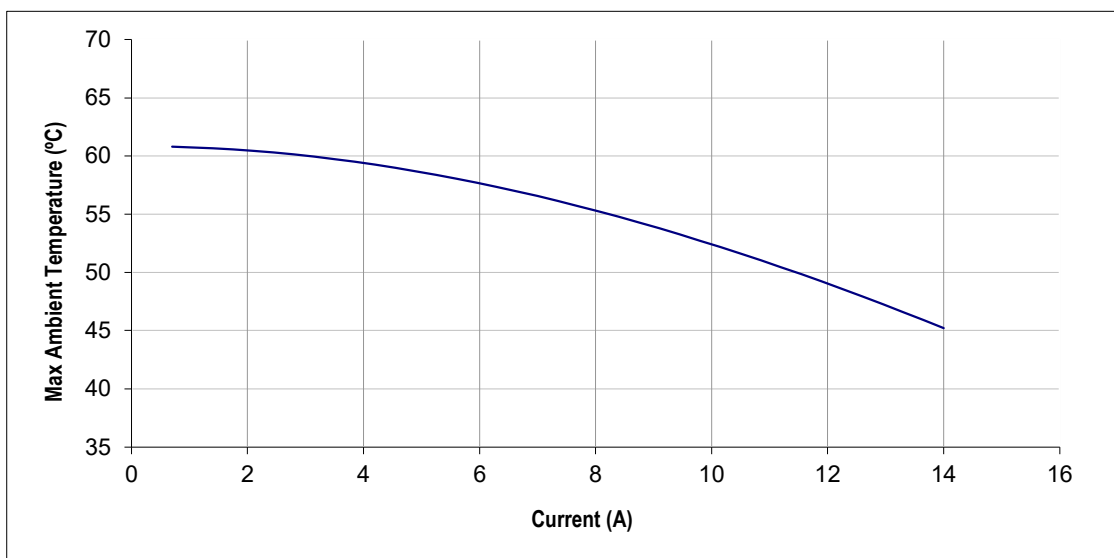
Height (A)	747 mm
Width (B)	536 mm
Depth (C)	300 mm
Effective cooling surface Ae of the enclosure	1,19 m ²

RESULTS

Ambient temperature (no direct sunlight)	35 °C
Rated current per input at 35°C	14,00 A
Power dissipated by components (except wiring)	61 W
Power dissipated by wiring	25 W
Total dissipated power	86 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	11,46 A



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects