

80000691108 PV combiner box thermal report

PV 40401S2V3C0A0ES

INPUT DATA

Enclosure model	847 x 636 x 300 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	no switch-disconnector
Maximum current (per MPPT)	336 A
Number of inputs (per MPPT)	4
Fuse-link model	100A gRL NH00
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

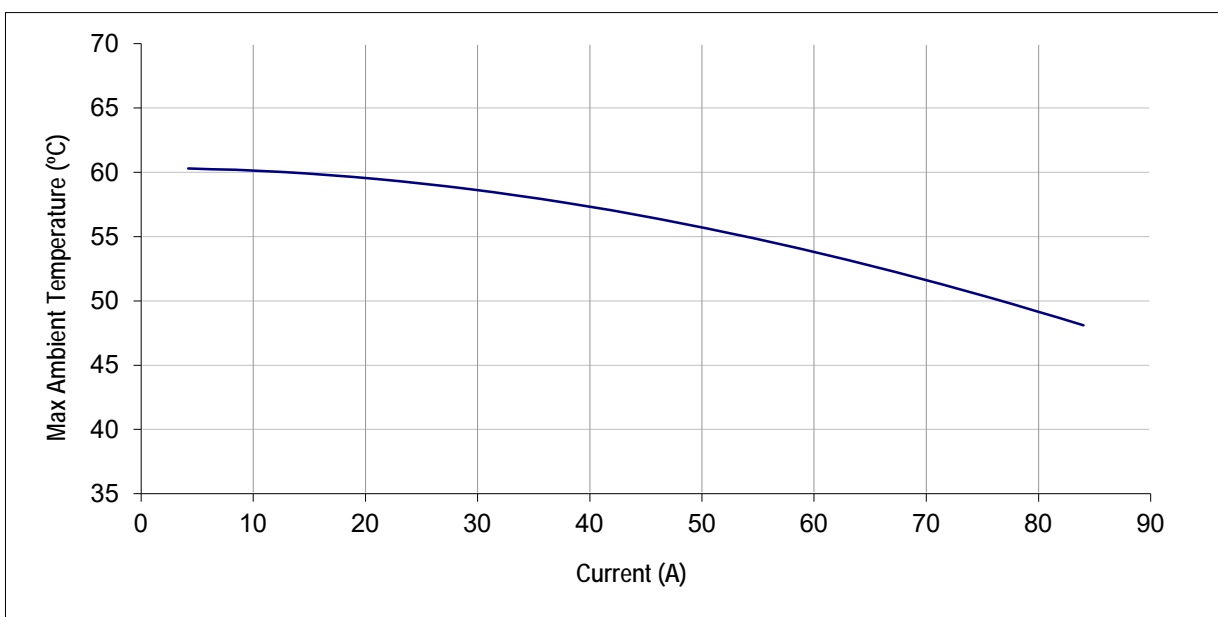
Height (A)	847 mm
Width (B)	636 mm
Depth (C)	300 mm
Effective cooling surface Ae of the enclosure	1,48 m ²

RESULTS

Ambient temperature (no direct sunlight)	35 °C
Rated current per input at 35°C	84,00 A
Power dissipated by components (except wiring)	68 W
Power dissipated by wiring	38 W
Total dissipated power	106 W
Temperature rise, mid height	18 °C
Temperature rise, top	22 °C
Internal temperature, top	57 °C

CURRENT RATINGS

At 35°C	84,00 A
At 40°C	84,00 A
At 45°C	84,00 A
At 50°C	76,68 A



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects