

8000101215 PV combiner box thermal report

PV 210S0F3CXXV000TA2PA15PWW

INPUT DATA

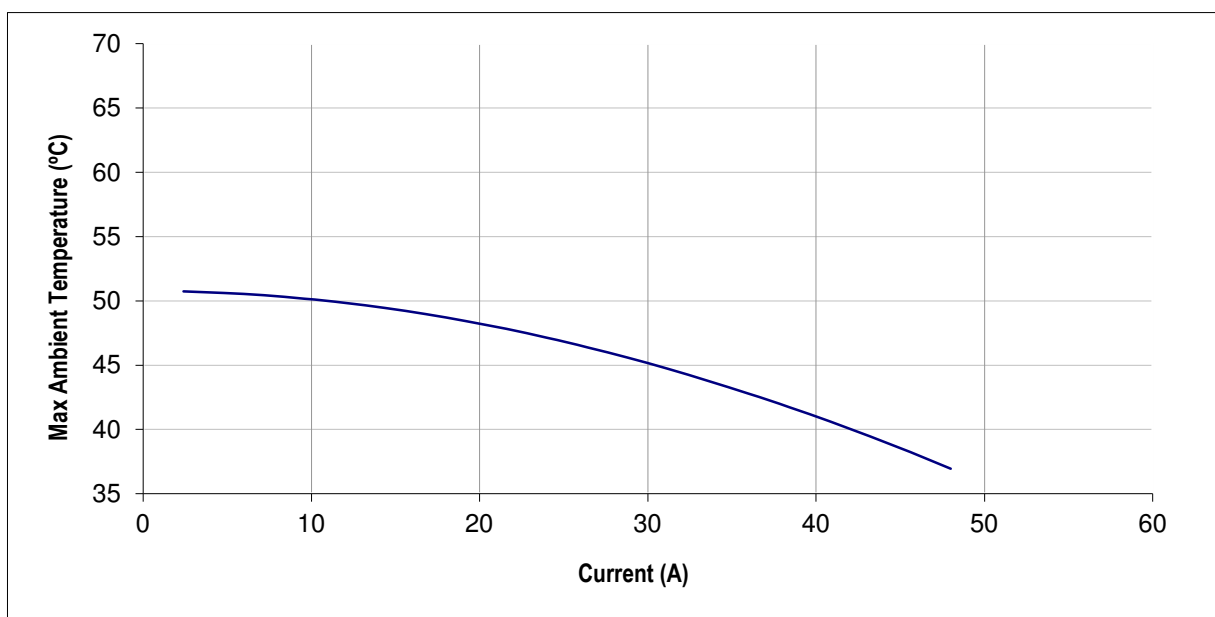
Enclosure model	1056 x 852 x 350 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	500A 1500V
Maximum current (per MPPT)	480 A
Number of inputs (per MPPT)	10
Fuse-link model	75A gPV 1500V 22x58mm
Number of monitoring devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70 °C
Combined inputs	1
Height (A)	1056 mm
Width (B)	852 mm
Depth (C)	350 mm
Effective cooling surface Ae of the enclosure	2.34 m ²

RESULTS

Ambient temperature (no direct sunlight)	35 °C
Rated current per input at 35°C	48.00 A
Power dissipated by components (except wiring)	138 W
Power dissipated by wiring	134 W
Total dissipated power	273 W
Temperature rise, mid height	26 °C
Temperature rise, top	33 °C
Internal temperature, top	68 °C

CURRENT RATINGS

At 35°C	48.00 A
At 40°C	42.10 A
At 45°C	30.43 A
At 50°C	10.99 A



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects