

8000135047 PV combiner box thermal report
PV 212SXFXCXXV003TA1PA15LWW

INPUT DATA

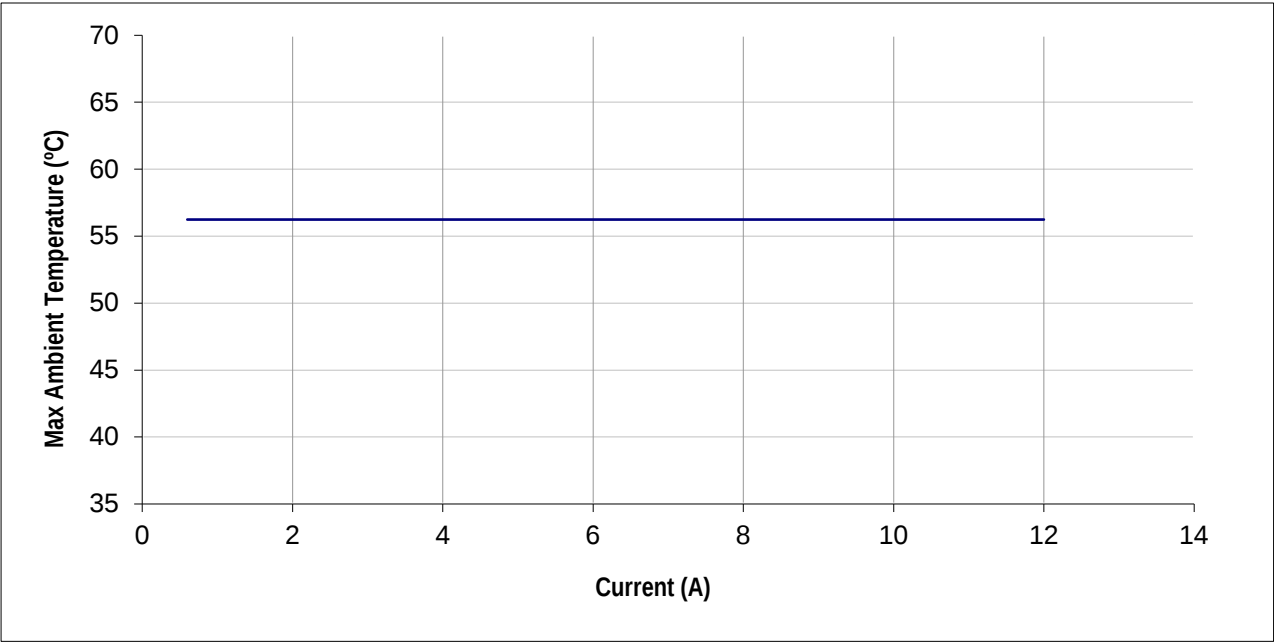
Enclosure model	558 x 302 x 210 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	no switch-disconnector
Maximum current (per MPPT)	144 A
Number of inputs (per MPPT)	12
Fuse-link model	no fuse
Number of monitoring devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70 °C
Combined inputs	1
Height (A)	558 mm
Width (B)	302 mm
Depth (C)	210 mm
Effective cooling surface Ae of the enclosure	0,54 m^2

RESULTS

Ambient temperature (no direct sunlight)	35 °C
Rated current per input at 35°C	12,00 A
Power dissipated by components (except wiring)	5 W
Power dissipated by wiring	15 W
Total dissipated power	20 W
Temperature rise, mid height	11 °C
Temperature rise, top	14 °C
Internal temperature, top	49 °C

CURRENT RATINGS

At 35°C	12,00 A
At 40°C	12,00 A
At 45°C	12,00 A
At 50°C	12,00 A



NOTES

Thermal report based on IEC TR 60890 ed2.0
Thermal report does not include the direct sunlight effects