

80000122018 PV combiner box thermal report  
PV 224SXFXCXXV001TA3PA15LWW

INPUT DATA

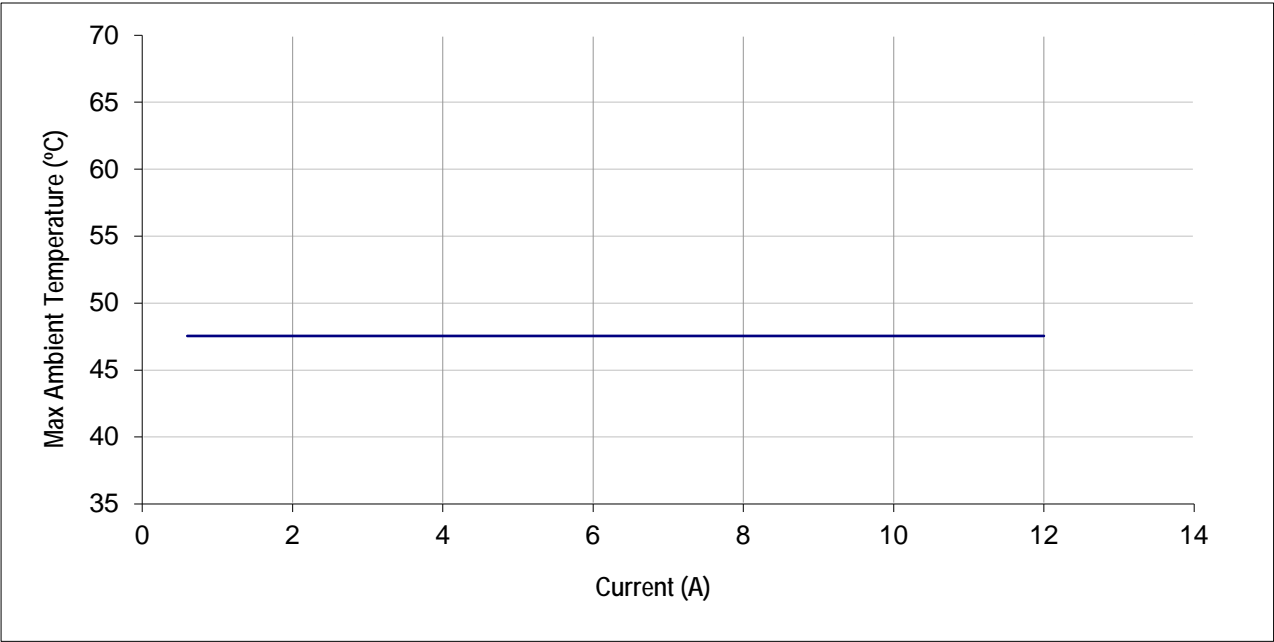
Enclosure model	558 x 302 x 210 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	no switch-disconnector
Maximum current (per MPPT)	288 A
Number of inputs (per MPPT)	24
Fuse-link model	no fuse
Number of monitoring devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum 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	32 W
Total dissipated power	37 W
Temperature rise, mid height	18 °C
Temperature rise, top	22 °C
Internal temperature, top	57 °C

CURRENT RATINGS

At 35°C	12,00 A
At 40°C	-453343129127901000,00 A
At 45°C	12,00 A
At 50°C	-4026519,84 A



NOTES

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