80000125422 PV combiner box thermal report

PV 220S0F3CXXV1O0TXPX15LXX

INPUT DATA

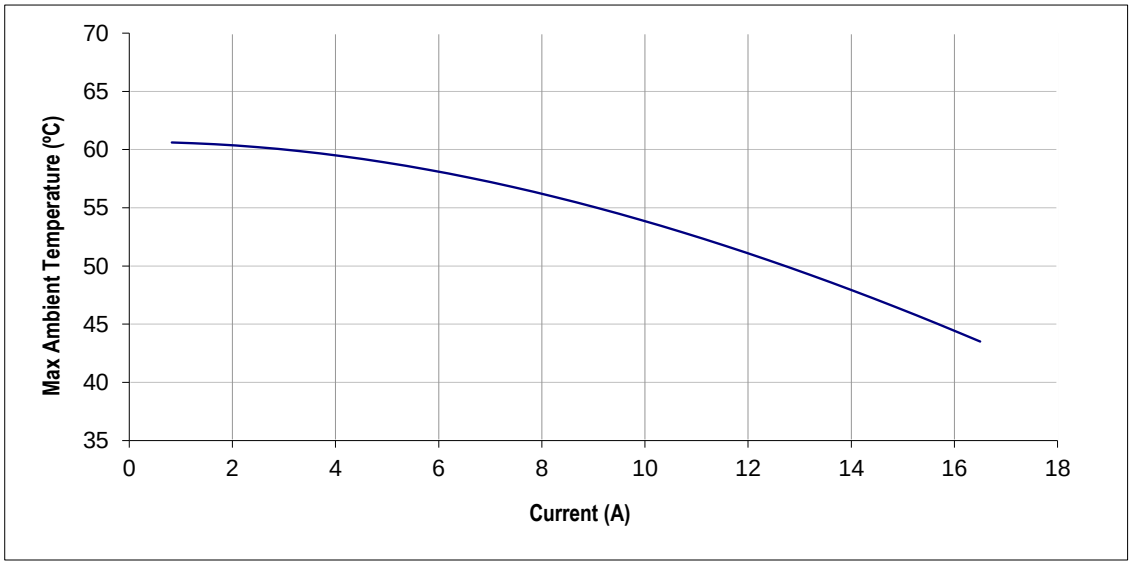
Enclosure model	636 x 847 x 300 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	400A 1500V
Maximum current (per MPPT)	330 A
Number of inputs (per MPPT)	20
Fuse-link model	30A gPV 1500V 10x85mm
Number of monitoring devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70 °C
Combined inputs	1
Height (A)	636 mm
Width (B)	847 mm
Depth (C)	300 mm
Effective cooling surface Ae of the enclosure	1.45 m^2

RESULTS

Ambient temperature (no direct sunlight)	35 °C
Rated current per input at 35°C	16.50 A
Power dissipated by components (except wiring)	96 W
Power dissipated by wiring	36 W
Total dissipated power	132 W
Temperature rise, mid height	21 °C
Temperature rise, top	26 °C
Internal temperature, top	61 °C

CURRENT RATINGS

At 35°C	16.50 A
At 40°C	16.50 A
At 45°C	15.69 A
At 50°C	12.71 A



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects

Weidmüller reserves the right to make technical modifications to designs for product optimization purposes without altering the technical specification.