8000124304 PV combiner box thermal report

PV 214S0F3CXXV0O0TXPX15PWW

INPUT DATA

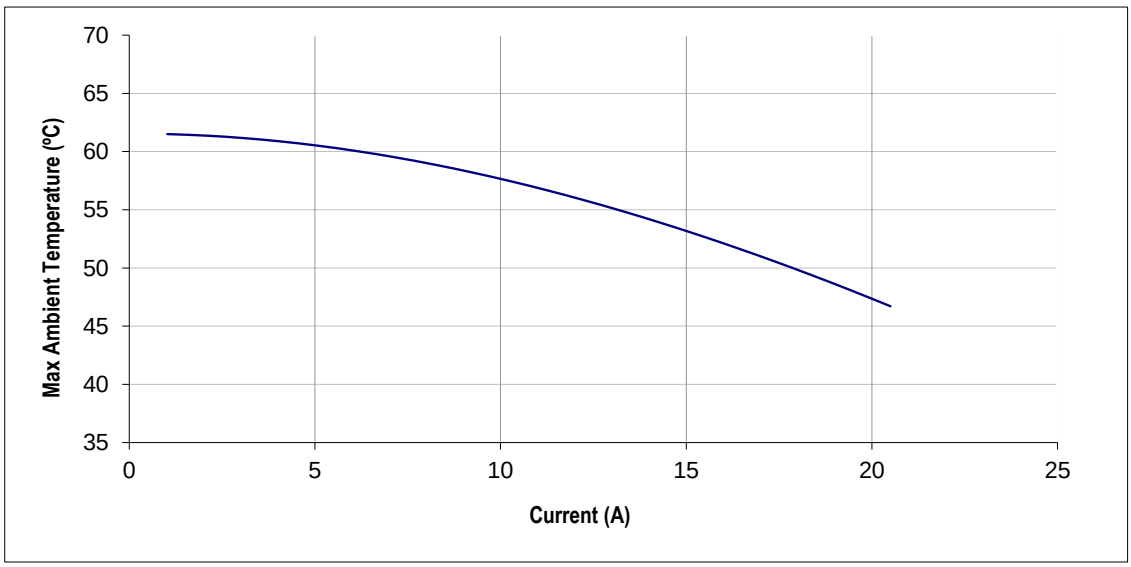
Enclosure model	847 x 636 x 300 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	400A 1500V
Maximum current (per MPPT)	287 A
Number of inputs (per MPPT)	14
Fuse-link model	32A gPV 1500V 10x85mm
Number of monitoring devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70 °C
Combined inputs	1
Height (A)	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	20.50 A
Power dissipated by components (except wiring)	82 W
Power dissipated by wiring	33 W
Total dissipated power	115 W
Temperature rise, mid height	19 °C
Temperature rise, top	23 °C
Internal temperature, top	58 °C

CURRENT RATINGS

At 35°C	20.50 A
At 40°C	20.50 A
At 45°C	20.50 A
At 50°C	17.86 A



NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects

Creation date 9/18/2023

80000XXXXX PV signal box thermal report

PV WUXIXXTXUXDXAXWXRXWW

INPUT DATA

Enclosure model	847 x 636 x 300 mm
Controller	1334990000 - UC20-WL2000-IOT
Industrial Ethernet switch	not included
Modbus TCP/RTU Gateway	1504460000 - IE-GW-MB-2TX-1RS232/485
Serial/Ethernet Converter	not included
Touch panel	not included
Power supply	1469470000 - PRO ECO 72W 24V 3A
UPS control unit	not included
Battery module	2789900000 - DURA ECO LA-BAT 24V 3.4AH
Digital signals (inputs)	not included
Digital signals (outputs)	not included
Analogue signals (inputs)	1315620000 - UR20-4AI-UI-16
Analogue signals (outputs)	1315750000 - UR20-1COM-232-485-422
Additional signals	not included
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70
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
Power dissipated by components (except wiring)	82 W
Power dissipated by wiring	32.53 W
Total dissipated power	115 W
Temperature rise, mid height	19 °C
Temperature rise, top	23 °C
Internal temperature, top	58 °C

NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects

Creation date 9/18/2023