

## 8000069105 PV combiner box thermal report

### PV 40601S2V1C0A1ES

#### INPUT DATA

Enclosure model	852 x 1056 x 350 mm
Number of MPPT	1
Switch-disconnector model (per MPPT)	no switch-disconnector
Maximum current (per MPPT)	510 A
Number of inputs (per MPPT)	6
Fuse-link model	100A gG NH1
Number of Transclinic xi+ devices (per MPPT)	0
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70 °C
Combined inputs	1

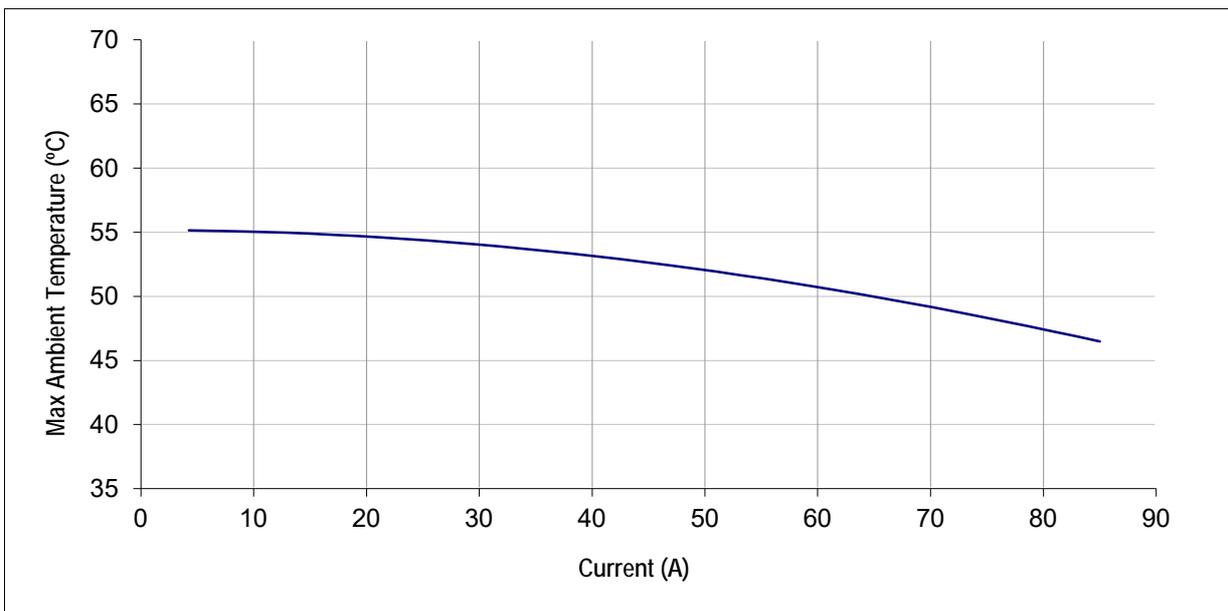
Height (A)	1056 mm
Width (B)	852 mm
Depth (C)	350 mm
Effective cooling surface Ae of the enclosure	2,34 m <sup>2</sup>

#### RESULTS

Ambient temperature (no direct sunlight)	35 °C
Rated current per input at 35°C	85,00 A
Power dissipated by components (except wiring)	78 W
Power dissipated by wiring	101 W
Total dissipated power	179 W
Temperature rise, mid height	19 °C
Temperature rise, top	24 °C
Internal temperature, top	59 °C

#### CURRENT RATINGS

At 35°C	85,00 A
At 40°C	85,00 A
At 45°C	85,00 A
At 50°C	64,83 A



#### NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects