

## 8000109859 PV combiner box thermal report

### PV 118SXFXXV001TXPX15LWW

#### INPUT DATA

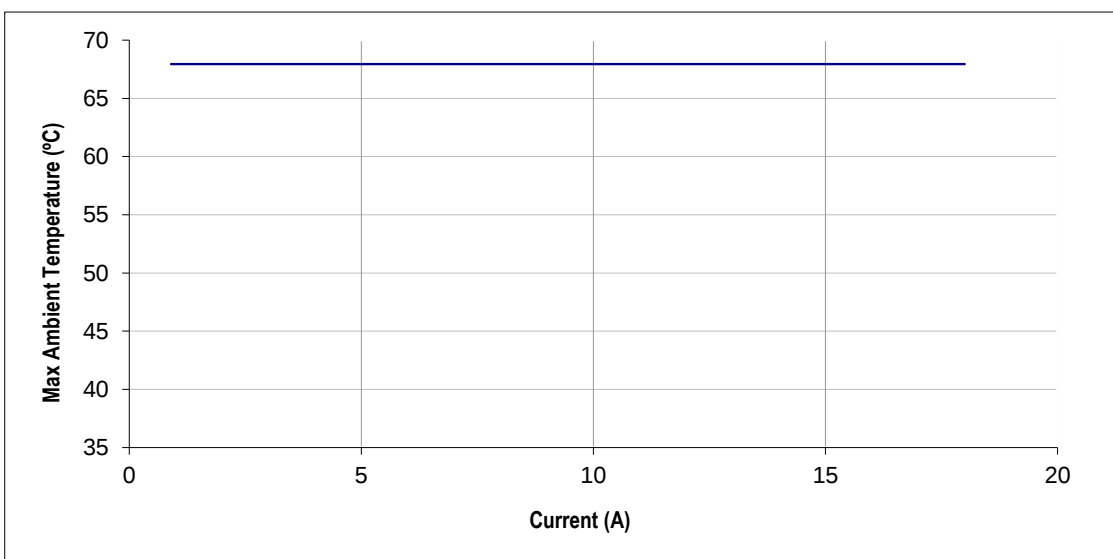
|                                               |                                        |
|-----------------------------------------------|----------------------------------------|
| Enclosure model                               | 536 x 747 x 300 mm                     |
| Number of MPPT                                | 9                                      |
| Switch-disconnector model (per MPPT)          | no switch-disconnector                 |
| Maximum current (per MPPT)                    | 36 A                                   |
| Number of inputs (per MPPT)                   | 2                                      |
| 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)                                    | 536 mm                                 |
| Width (B)                                     | 747 mm                                 |
| Depth (C)                                     | 300 mm                                 |
| Effective cooling surface Ae of the enclosure | 1.16 m <sup>2</sup>                    |

#### RESULTS

|                                                |         |
|------------------------------------------------|---------|
| Ambient temperature (no direct sunlight)       | 35 °C   |
| Rated current per input at 35°C                | 18.00 A |
| Power dissipated by components (except wiring) | 0 W     |
| Power dissipated by wiring                     | 4 W     |
| Total dissipated power                         | 4 W     |
| Temperature rise, mid height                   | 2 °C    |
| Temperature rise, top                          | 2 °C    |
| Internal temperature, top                      | 37 °C   |

#### CURRENT RATINGS

|         |         |
|---------|---------|
| At 35°C | 18.00 A |
| At 40°C | 18.00 A |
| At 45°C | 18.00 A |
| At 50°C | 18.00 A |



#### NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects