

## 8000122737 PV combiner box thermal report

### PV 215S0F3CXXV100TA1PA15LWW

#### INPUT DATA

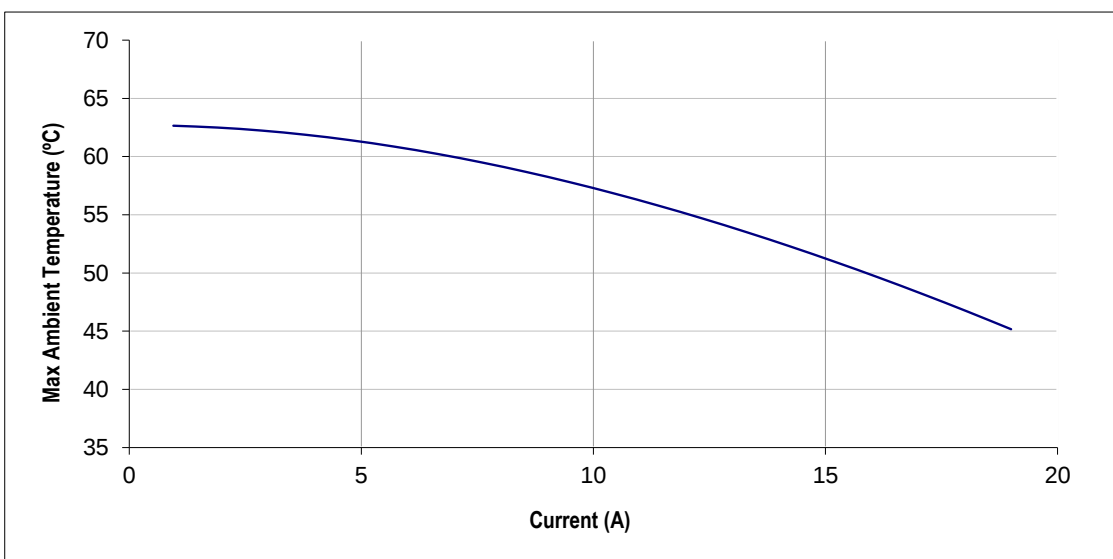
|                                               |                                        |
|-----------------------------------------------|----------------------------------------|
| Enclosure model                               | 636 x 847 x 300 mm                     |
| Number of MPPT                                | 1                                      |
| Switch-disconnector model (per MPPT)          | 400A 1500V                             |
| Maximum current (per MPPT)                    | 285 A                                  |
| Number of inputs (per MPPT)                   | 15                                     |
| 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 <sup>2</sup>                    |

#### RESULTS

|                                                |         |
|------------------------------------------------|---------|
| Ambient temperature (no direct sunlight)       | 35 °C   |
| Rated current per input at 35°C                | 19.00 A |
| Power dissipated by components (except wiring) | 93 W    |
| Power dissipated by wiring                     | 24 W    |
| Total dissipated power                         | 117 W   |
| Temperature rise, mid height                   | 19 °C   |
| Temperature rise, top                          | 24 °C   |
| Internal temperature, top                      | 59 °C   |

#### CURRENT RATINGS

|         |         |
|---------|---------|
| At 35°C | 19.00 A |
| At 40°C | 19.00 A |
| At 45°C | 19.00 A |
| At 50°C | 15.88 A |



#### NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects