

8000101284 PV Communication Box Server LoRaWAN Premium Thermal Report

PV CPCI21TXU3DXAXWXR2WW

INPUT DATA

Enclosure model	747 x 536 x 300 mm
Controller	2909930000 - UV20-B-IPC-2002.03
Industrial Ethernet switch	2682250000 - IE-SW-AL05LM-5TX
Router	2739630000 - IE-SR-4TX-LTE/4G-USEMEA
Modbus TCP/RTU Gateway	not included
Serial/Ethernet Converter	not included
Touch panel	not included
PoE Injector	2682440000 - IE-INJ-EL02-2GTPOE
Power supply	1469470000 - PRO ECO 72W 24V 3A
UPS control unit	1370050010 - CP DC UPS 24V 20A/10A
Battery module	2789910000 - DURA ECO LA-BAT 24V 7AH
Digital signals (inputs)	not included
Digital signals (outputs)	not included
Analogue signals (inputs)	not included
Analogue signals (outputs)	not included
Additional signals	not included
Type of mounting	Against wall, all other sides detached
Maximum allowed internal temperature	70
Height (A)	747 mm
Width (B)	536 mm
Depth (C)	300 mm
Effective cooling surface Ae of the enclosure	1,19 m ²

RESULTS

Ambient temperature (no direct sunlight)	40 °C
Power dissipated by components (except wiring)	109 W
Power dissipated by wiring	0,28 W
Total dissipated power	110 W
Temperature rise, mid height	24 °C
Temperature rise, top	30 °C
Internal temperature, top	70 °C

NOTES

Thermal report based on IEC TR 60890 ed2.0

Thermal report does not include the direct sunlight effects