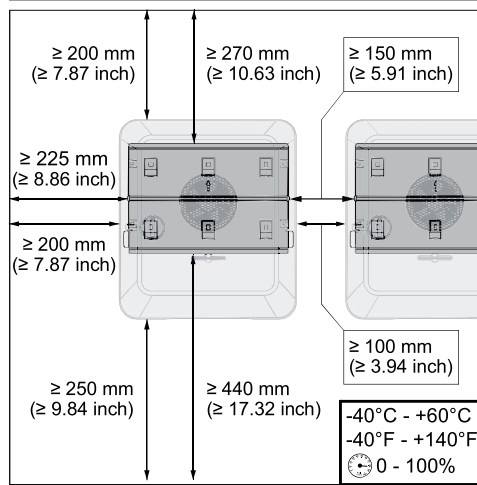


Installation location and position

Choosing the location of the inverter

Please note the following criteria when choosing a location for the inverter:



Only install on a solid, non-flammable surface.

Max. ambient temperatures:

$-40^{\circ}\text{C} - +60^{\circ}\text{C}$
 $-40^{\circ}\text{F} - +140^{\circ}\text{F}$

Relative humidity:

0 - 100%

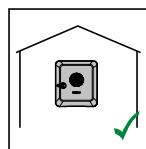
If the inverter is installed in a switch cabinet or similar enclosed space, ensure sufficient heat dissipation with forced-air ventilation.

For detailed information on the dimensions of the inverter, see chapter **Fronius Primo GEN24 3 - 6 kW** on page **195**.

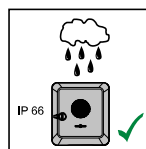
When installing the inverter on the outer walls of cattle sheds, it is important to maintain a minimum clearance of 2 m between the inverter and the ventilation and building openings on all sides.

The following substrates are permissible for installation:

- Walls (corrugated metal walls [mounting rails], brick walls, concrete walls, or other non-flammable surfaces sufficiently capable of bearing loads)
- Poles (installed using mounting rails, behind the solar modules directly on the PV mounting system)
- Flat roofs (if this is for a film roof, make sure that the films comply with the fire protection requirements and are not highly flammable. Ensure compliance with the national provisions.)
- Covered car park roofs (no overhead installation)

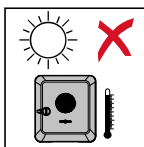


The inverter is suitable for indoor installation.

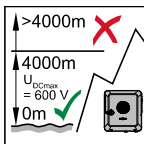
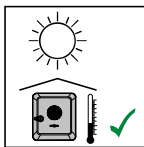


The inverter is suitable for outdoor installation.

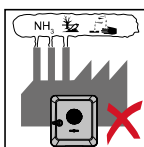
Because of its IP 66 protection class, the inverter is resistant to water jets from any direction and can also be used in damp environments.



In order to minimise the heating up of the inverter, do not expose it to direct insolation. The inverter should be installed in a protected location, for example, below the PV modules or under an overhanging roof.

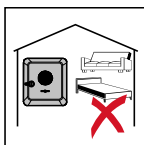


IMPORTANT! The inverter must not be installed or used at altitudes above 4000 m.

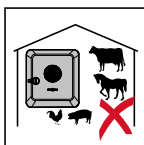


Do not install the inverter in:

- Areas where it may be exposed to ammonia, corrosive gases, acids or salts (e.g. fertiliser storage areas, vent openings for livestock stables, chemical plants, tanneries, etc.)

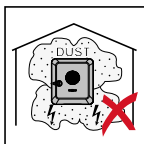


During certain operating phases the inverter may produce a slight noise. For this reason it should not be installed in an occupied living area.

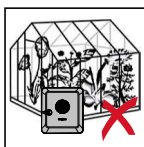


Do not install the inverter in:

- Areas where there is an increased risk of accidents from farm animals (horses, cattle, sheep, pigs, etc.)
- Stables or adjoining areas
- Storage areas for hay, straw, chaff, animal feed, fertilizers, etc.



The inverter is essentially designed to be dustproof (IP 66). In areas of high dust accumulation, dust deposits may collect on the cooling surfaces, and thus impair the thermal performance. Regular cleaning is required in this case, see chapter **Operation in dusty environments** on page 151. We therefore recommend not installing the inverter in areas and environments with high dust accumulation.



Do not install the inverter in:

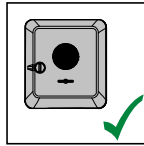
- Greenhouses
- Storage or processing areas for fruit, vegetables or viticulture products
- Areas used in the preparation of grain, green fodder or animal feeds

Choosing the location of third-party batteries

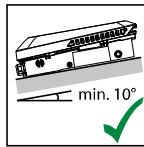
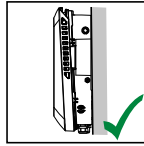
IMPORTANT!

Refer to the manufacturer's documents for the suitable location for third-party batteries.

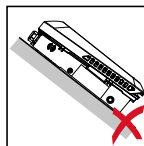
Explanation of symbols for the installation position



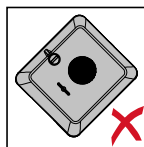
The inverter is suitable for vertical installation on a vertical wall or column.



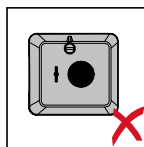
The inverter is suitable for installation on a sloping surface (min. slope to underside 10°).



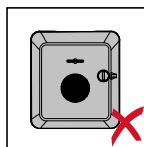
Do not install the inverter on a sloping surface with its connection sockets at the top.



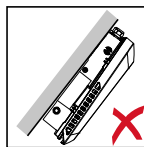
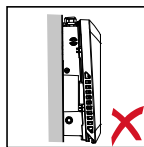
Do not install the inverter at an angle on a vertical wall or column.



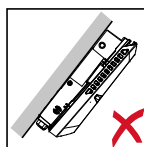
Do not install the inverter horizontally on a vertical wall or pillar.



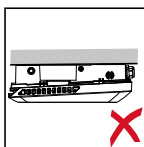
Do not install the inverter on a vertical wall or pillar with its connection sockets facing upwards.



Do not install the inverter overhanging with the connection sockets at the top.



Do not install the inverter overhanging with the connection sockets at the bottom.



Do not install the inverter on the ceiling.