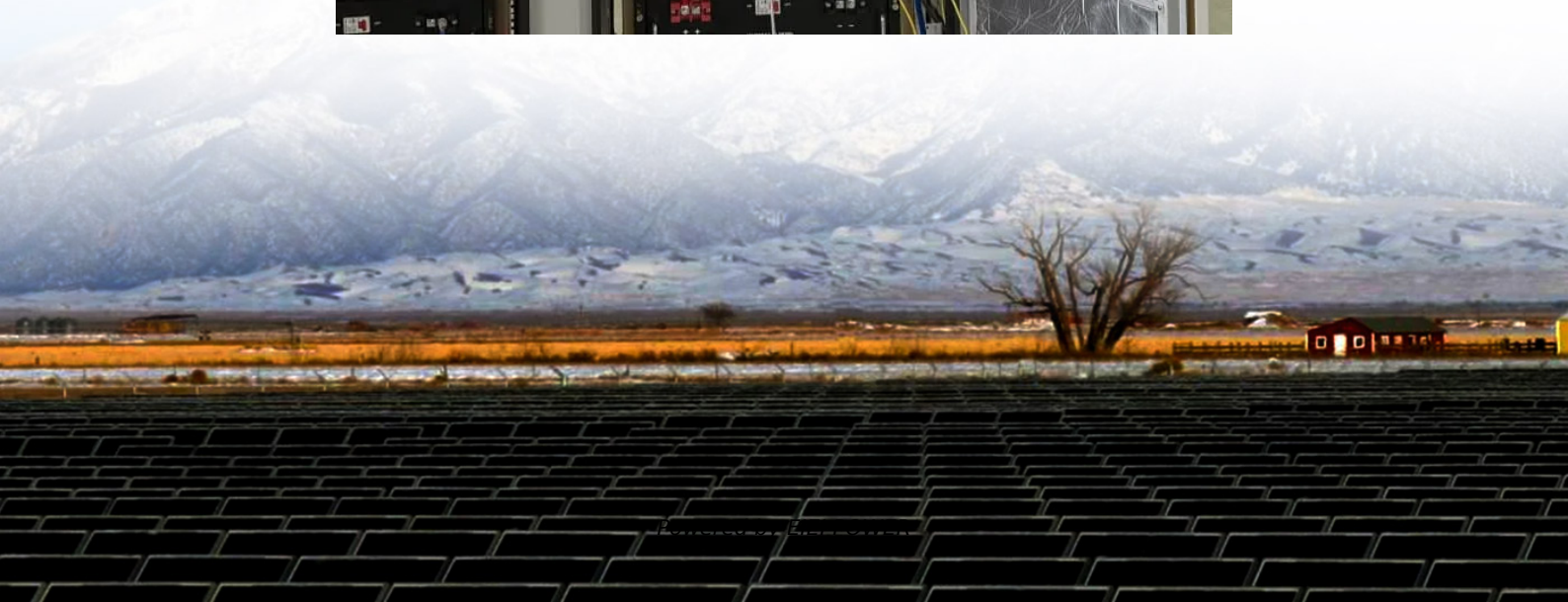


European DC Inverter Device Parameters





Overview

What are inverter specifications?

Specifications provide the values of operating parameters for a given inverter. Common specifications are discussed below. Some or all of the specifications usually appear on the inverter data sheet. Maximum AC output power This is the maximum power the inverter can supply to a load on a steady basis at a specified output voltage.

Do inverters always operate at their maximum efficiency?

The inverters or power converters don't operate always at their maximum efficiency, but according to an efficiency profile as function of the Power. The "European Efficiency" is an averaged operating efficiency over a yearly power distribution corresponding to middle-Europe climate.

How do you classify an inverter based on its power output?

Using the CEC efficiency, the input power to the inverter must be $P_{IN} = P_{OUT} / \text{CEC Efficiency} = 3,300 \text{ W} / 0.945 = 3,492 \text{ W}$ Inverters can be classed according to their power output. The following information is not set in stone, but it gives you an idea of the classifications and general power ranges associated with them.

How to define an inverter's efficiency?

There exist experimental methodologies to define the inverter's efficiency described in standards which are, however, at present under revision. Usefulness of having a single weighted average efficiency value or efficiency curves with several points. Interpolation methodology should be defined in order to apply the efficiency curves values.



European DC Inverter Device Parameters



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