



Efficiency of Tigo TS4-R-O, TS4-R-L, TS4-O and TS4-L UHD Core

1 Introduction

The efficiency of the Tigo Optimizers depends on the amount of shading or module mismatch, respectively the grade of optimization.

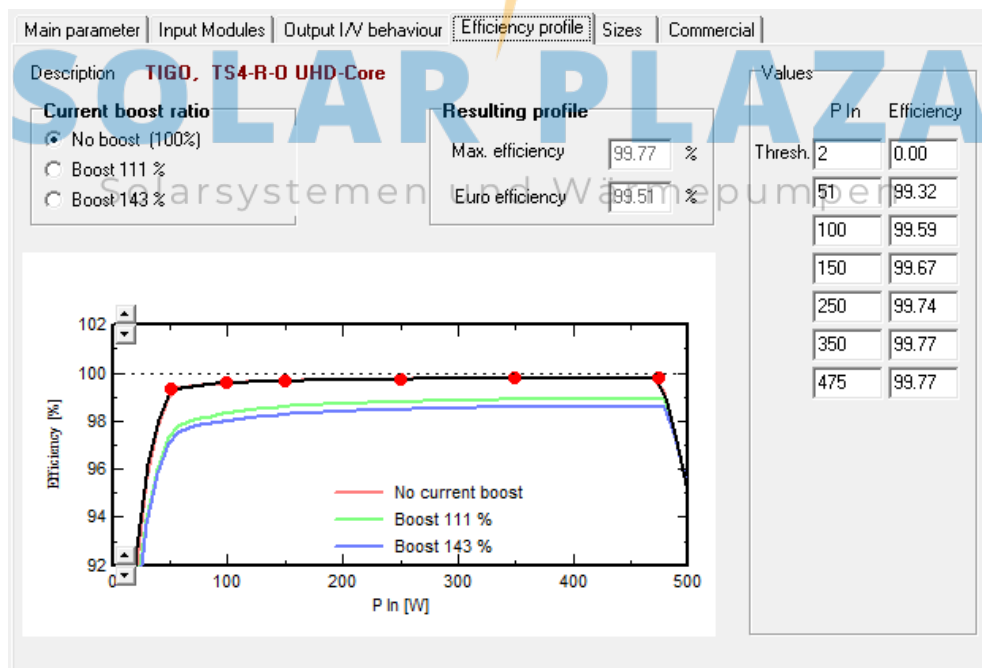
Every PV system has a different setup and so there is also a different electrical efficiency that has to be compared with the Energy Gain from the optimization of the PV modules.

The Gain of Energy from optimization is higher than the losses from the electrical efficiency of the optimizers. These values are different in every PV system.

2 Electrical Efficiency of a Tigo Optimizer TS4 UHD Core

The Tigo optimization is normally inactive and only gets activated, when it is required. **Here below is confirmed that the efficiency is higher than 99%.**

Electrical Efficiency with Optimization



3 Average yearly efficiency of a PV System with Tigo Optimization

The report below shows the average efficiency of a PV system in Austria with full optimization on all panels. The average efficiency in this system is 99,1%.

