

2 Description of Essential Components

2.1 Sunny Tripower

The Sunny Tripower is equipped with groundbreaking technology and therefore ensures easy installation, high yields, and secure grid support. Thanks to its multi-string technology and the greatest input voltage range, the three-phase inverter is suited for all module configurations imaginable. It therefore allows for highly flexible plant design - from 10 kW to megawatt levels. The Sunny Tripower meets the requirements of the Germany Medium Voltage Guidelines (BDEW), thereby contributing to grid safety management, even on an international level.

Properties:

Efficiency • Maximum efficiency of 98.1 %

- High yields thanks to OptiTrac and OptiCool

Reliability • Capable of supplying reactive power

- Integrated ESS DC load-disconnecting switch
- Electronic string fuse
- Self-learning string failure detection

Flexibility • DC surge voltage protector (Type II), can be integrated

- DC input voltage of up to 1,000 V
- Flexible module design using two separate step-up converters

