

## Sma single phase inverters

The new Sunny Boy 4.0 succeeds the world's most installed residential string inverter, the Sunny Boy 4000 TL. It is more than just a PV inverter: delivered with SMA Smart Connected service, it is a complete package that offers PV system owners and installers true comfort and ease. The automatic inverter monitoring by SMA analyzes operation, reports irregularities and minimizes downtime.

In 4.0 kW power class, the Sunny Boy is ideally suited to solar power generation in private homes. Thanks to its extremely light design and the modern user interface, the device can be easily and quickly installed. Current communication standards make the inverter future-proof, meaning SMA storage solutions and SMA Smart Home can be added at any time.

The Sunny Tripower X is the latest in commercial solar energy generation and the new centerpiece of the proven SMA Energy System Business. As a comprehensive solution, the integrated System Manager enables complete energy management from one platform while combining state-of-the-art technology into one device. This design ensures small- to medium-sized businesses can accommodate all energy management and needs, today and in the future.

The MD.SEN-US-40 is compatible with the Sunny Tripower X 20-US / 25-US / 30-US with hardware version A2 or newer. The hardware version can be found on the packaging label of the SMA Sensor Module.

If the SMA Sensor Module is used in the Sunny Tripower X, you may only connect signal sources (e.g., irradiation sensors) with current signals to the analog input of the SMA Sensor Module.

The S0 interface of the SMA Sensor Module cannot be used for the Sunny Tripower X. It is therefore not possible to operate an anemometer or energy meter with the Sunny Tripower X by connecting them to the S0 interface of the SMA Sensor Module.

In connection with an energy meter, an SMA System Manager takes over closed-loop control at the point of interconnection and can control or regulate subordinate inverters. The System Manager also takes over system monitoring and communication to the Sunny Portal powered by ennexOS.

The Sunny Home Manager can be used as a superordinate device but is not able to fully perform the functions of the System Manager. For example, the Sunny Home Manager cannot be used for reactive power control.

From firmware version 03.02.07.R the transmission protocol of Sunny Tripower X has changed from http to the secure transmission protocol https. The user interface of the Sunny Tripower X is accessible via [https://SMA\[serial number\]](https://SMA[serial number]) or [https://SMA\[serial number\].local](https://SMA[serial number].local) from firmware version 03.02.07.R.

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