

READ ME

Inverter	Sunny Tripower CORE1 STP 50-41 / (STP xx-US 41)
FW-Version	04.01.05.R
Release Date	03/2023
Update feature/reason	Implementation of new country records • [JO] IRR-DCC-MV inst. (500 kW – 2MW) • [JO] IRR-DCC-MV inst. Less than 500kW • [PL] PN-EN 50549-1:2019 • [PL] PN-EN 50549-2:2019 • [ES] TED749:2020 Typ A P ≤ 100kW US relevant country records (UL certified in accordance with the new UL 1741SB / IEEE 1547-2018): • [US] IEEE 1547:2018, Cat.B-II • [US] IEEE 1547:2018, Cat.B-III • [US] HECO SRD2.0 IEEE1547:2018, Cat.B-III Improved security with PUK 2.0 SMA PUK2.0 replaces for products with firmware version ≥ 4.00.00.R the previous procedure for logging in to the user interface if you have forgotten the password for your product. Whether your product supports PUK2.0 is shown on the login page of the user interface via the information button. SunSpec Modbus 2.0 The SunSpec profile 2.0 is now extended to meet the IEEE1547:2018 requirements. For this, the so-called 700 series of SunSpec information models is intended as the substitute for the 100 series. For more information, please see SunSpecModbus-TI-en-11.pdf. Support of EPRI Common File Format (USA) The Inverter supports now the open, manufacturer-independent URP (Utility-Required-Profile) file format configuring the inverter via file. The format was defined by the "Electric Power Research Institute (EPRI)" in cooperation with US electric utility companies and inverter manufacturers. For more information, please see installation manual of the inverter

	Improvements of the communication interface The new firmware contains a lot of optimizations relating to the communication interface. Due to that reason, it is recommended to update your inverter with this latest firmware package.
Update medium	• ennexOS Sunny Portal – automatic updates • SMA Data Manager M • Web Interface of the inverter (Inverter WebUI) • Sunny Explorer (as from version 1.07.29.R) • SMA Cluster Controller
File-Name	FW4_01_05_R_STP50-41.zip
ennexOS Sunny Portal instructions:	Activate automatic updates under “Configuration [cog wheel] > System properties” for the selected PV system Automatic updates take place overnight to minimize interruption of system production and may take 1-2 days after initial activation of automatic updates to complete.
SMA Data Manager M instructions:	Please go to the SMA download area and do as follows: https://www.sma.de/service/downloads.html Search for “EDMM-10-BE” and select the document in your preferred language.
Inverter WebUI instructions:	Please go to the SMA download area and do as follows: https://www.sma.de/service/downloads.html Search for “STP50-4x-BE” and select the document in your preferred language.
Sunny Explorer instructions:	Please go to the SMA download area and do as follows: https://www.sma.de/service/downloads.html Search for “Explorer-BA” and select the document in your preferred language.
SMA Cluster Controller instructions:	Please go to the SMA download area and do as follows: https://www.sma.de/service/downloads.html Search for “ClusterController-BA” and select the document in your preferred language.
Notes	

Release notes of former FW-Releases

Inverter	Sunny Tripower CORE1 STP 50-41 / STP xx-US 41
FW-Version	3.14.07.R

Release Date	02/2022
Update feature/reason	<u>Please Note:</u> This update is not compatible with discontinued types: STP 50-40, STP xx-US-40 <u>Changes:</u> This Firmware is the latest version used in production since April 2022. The only change is the compatibility to inverters produced without WLAN (WiFi) functionality. The support of inverters with WLAN is still possible.

Inverter	Sunny Tripower CORE1 STP 50-41 / STP xx-US 41
FW-Version	3.14.05.R
Release Date	02/2022
Update feature/reason	<u>Please Note:</u> This update is not compatible with discontinued types: STP 50-40, STP xx-US-40 <u>Changes:</u> 1: New Australian country records for AS/NZS 4777.2:2020 compliance • [AU/NZ] AS/NZS 4777.2:2020 A • [AU/NZ] AS/NZS 4777.2:2020 B • [AU/NZ] AS/NZS 4777.2:2020 C • [AU/NZ] AS/NZS 4777.2:2020 NZ After updating the correct country record must be selected by installer. With this update the Sunny Tripower CORE1 (STP 50-41) complies to the requirements of the AS/NZS 4777.2:2020 standard for Australia. 2: Change in the feed in conditions This change is only relevant for inverters are already <u>produced</u> with 3.14.05.R or higher. In this case a country data record must be set for feed-in operation during <u>initial</u> commissioning process. If no country data record is set, then feed-in operation will be stopped. This state is signaled by the green and red LEDs flashing simultaneously.

	The inverter will automatically start feed-in operation only after the inverter configuration is completed. This change has <u>no impact</u> to any update of inverters are already operating with an older firmware version and fed in before. No additional measures are required. 3: Implementation of the SunSpec Modbus profile 1.1 Correction of SunSpec information models of the 100 series. For detailed information please read the technical information (SunSpecModbus-TI-en-10.pdf) attached in this update file.
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Inverter	Sunny Tripower CORE1 STP 50-41 / STP xx-US 41
FW-Version	3.12.25.R
Release Date	10/2021
Update feature/reason	Please Note: This update is only for use with: STP 50-41 and STP xx-US-41 (This update is not compatible with discontinued types: STP 50-40, STP xx-US-40) Changes: Improvement to ensure the stability of the WLAN communication interface. Due to product care and error prevention we recommend updating your inverter with this new firmware version.

Inverter	Sunny Tripower CORE1 STP 50-41 / (STP xx-US 41)
FW-Version	3.12.23.R
Release Date	09/2021
Update feature/reason	Please Note: This update is only for use with: STP 50-41 and STP xx-US-41 (This update is not compatible with discontinued types: STP 50-40, STP xx-

	US-40) Changes: This update contains only optimizations relating to the US version of Sunny Tripower CORE1 (STP xx-US-41). Fore more information please see the readme file distributed under the download area at www.SMA-America.com The 3.12.23.R will be distributed for Sunny Tripower STP 50-41 too, but without relevant changes relating to the previous version 3.12.21.R used since start of production in April 2021. We recommend update the STP 50-41 with 3.12.23.R too, because it is the latest version used for STP 50-41 and STP xx-US-41.
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Inverter	STP 50-41 (Sunny Tripower CORE1)-
FW-Version	3.12.21 Start of Production STP 50-41
Release Date	04/2021
Update feature/reason	This version was used for start of production of the new inverter Type of Sunny Tripower CORE1 (STP 50-41) Please note: the used Firmware is not compatible to STP 50-40