

READ ME

Inverter	STP 50-40 / STP 50-JP-40 (CORE1)
FW-Version	3.01.17.R / 3.01.18.R
Release Date	08/2019 (Download)
Update feature/reason	<p>Please use version 3.01.17.R for an update of a version <3.00.00.R</p> <p>Please use Version 3.01.18.R for an update of inverters with already installed version >3.00.00.R</p> <ul style="list-style-type: none"> • With this release it is applicable to realize the simplified grid and PV system protection, complies with the German VDE AR-N-4105:2018 (German: NA-Schutz). More information about installation requirements and commissioning you will find in the "Technical Information": Vereinfachte Realisierung des Netz- und Anlagenschutzes in PV-Anlagen nach VDE AR-N-4105:2018. • stability improvements regarding the communication interface • corrections of wrong error messages relating to external energy meter • Enhanced Web Connect support of special Internet Service Provider (ISP) due to TCP connection with Sunny Portal (no SIP communication anymore) <p>This release contains all changes of the former version 3.00.10.R</p>
Update medium	<ul style="list-style-type: none"> • Web Interface of the inverter (WebU/I) • Sunny Explorer (as from version 1.07.29.R) • SMA Cluster Controller • SMA Data Manager M (via USB)
File-Name	<p>FW3_01_17_R_STP50-40.zip (for update of a version <3.00.00.R)</p> <p>FW3_01_18_R_STP50-40.zip (for update of a version > 3.00.00.R)</p>
Update manual	<p>Web Interface of the inverter:</p> <p>Please go to the SMA download area and do as follows: https://www.sma.de/service/downloads.html Search for "STP50-US-40-IA" and select your preferred language.</p> <p>Sunny Explorer:</p> <p>Please go to the SMA download area and do as follows: https://www.sma.de/service/downloads.html Search for "Explorer-BA" and select your preferred language.</p>

	SMA Cluster Controller: Please go to the SMA download area and do as follows: https://www.sma.de/service/downloads.html Search for "ClusterController-BA" and select your preferred language.
Important Notes	The update process from a version < 3.00.00R to version > 3.00.00 via Web UI takes around 30 minutes. Please ignore upcoming message about failed update processes, or lost connection during the update process. We recommend closing the browser for 30 minutes. After 30 minutes it is possible to login via the known log in window After login it is possible to change the grid code as you know it from former version. If you choose an RfG Grid Code, it will take additional 10 minutes.

Release notes of former FW-Releases

Inverter	STP 50-40 / STP 50-JP-40 (CORE1)
FW-Version	3.00.10.R
Release Date	07/2019 (Download)
Update feature/reason	New/changed main functionality New grid codes With the new firmware release 3.00.10.R the STP 50-40/STP 50-JP-40 comply to the European regulation (EU) 2016/631 ("RfG", Requirements for Generators"). Following new grid codes are implemented: Germany: Low voltage: VDE-AR-N 4105:2018-11 Medium voltage: VDE-AR-N 4110:2018-11 EU (general): Low voltage: EN50549-1:2018 Medium voltage: EN50549-2:2018 UK: * Low voltage: EREC G99:2018 Medium voltage: EREC G99:2018 Belgium: *

	<p>Low voltage: C10/11 LV2:2018 Medium voltage: C10/11 MV1:2018</p> <p>*) Please note the new grid codes for UK and Belgium are preliminary and not yet certified (verification is still in process). It is recommended to choose the previous grid codes until the manufacturer declaration for the new grid code will be available (manufacture declarations can be found on www.sma.de).</p> <p>Changes in the Web UI</p> <ul style="list-style-type: none"> • The new firmware provides some improvements of the Web UI • Enhanced password restrictions for higher security (Information will be displayed in the Web UI) <p>Grid Guard 10.0 (For RfG Setting)</p> <p>"Grid Guard 10.0" is a new solution to realize the grid management and control functions of the inverter. It contains new parameters and enhanced methods to realize e.g. $Q(U)$, $P(f)$ $\cos \Phi(P)$ functions. SMA will use this new solution to realize future grid standards beginning with the European RfG standards.</p> <p>You will find a detailed description of the Grid Guard 10.0 capabilities in the zip file of the firmware package or under www.sma.de.</p> <p>Please search for: NSM-GG10-TI-en-10.pdf (Technical Information SMA GRID GUARD 10.0, Grid Management Services through SMA Inverters)</p> <p>Bug Fixes</p> <p>With this firmware version the data exchange between inverter and Sunny Portal is improved thus the data volume is significant reduced.</p>
Update medium	<ul style="list-style-type: none"> • Web Interface of the inverter (WebU/I) • Sunny Explorer (as from version 1.07.29.R) • SMA Cluster Controller • SMA Data Manager M (via USB)
File-Name	FW3_00_10_R_STP50-40.zip

Inverter	STP 50-40 / STP 50-JP-40 (CORE1)
FW-Version	1.05.09.R
Release Date	02/2019 (Download)
Update feature/reason	<ul style="list-style-type: none"> • stability improvements regarding the communication interface
Update medium	<ul style="list-style-type: none"> • Web Interface of the inverter

	<ul style="list-style-type: none"> • Sunny Explorer (as from version 1.07.29.R) • SMA Cluster Controller
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Inverter	STP 50-40 / STP 50-JP-40 (CORE1)
FW-Version	1.05.05.R
Release Date	08/2018 (Download)
Update feature/reason	<ul style="list-style-type: none"> • stability improvements regarding the communication interface • New predefined country settings for: <ul style="list-style-type: none"> ◦ Brazil (ABNT NBR 16149:2013) ◦ South Africa (NRS97-2-1) ◦ Chile (NT_LEY 20571)
Update medium	<ul style="list-style-type: none"> • Web Interface of the inverter • Sunny Explorer (as from version 1.07.29.R) • SMA Cluster Controller

Inverter	STP 50-40 (CORE1)
FW-Version	1.03.04.R
Release Date	11/2017 (Download)
Update feature/reason	<ul style="list-style-type: none"> • initial firmware version for certificate for German BDEW guideline "Generating Plants connected to the Medium-Voltage Network" • initial firmware version for certificates for Italian standards CEI 0-16 and CEI 0-21 • Implementation of Integrated Plant Control 2.0 for CORE1 inverter (see "Technical Information - Integrated Plant Control and Q on Demand 24/7") • stability improvements