

## Release Notes - 6.1.2 Build 165 - 16.07.2024

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Firmware releases extend the range of functions and contain improvements for the security, stability and reliability of your Solar-Log product. Compatibility of component drivers is improved by adaptations. The following release notes contain the most important new features.

### Component Drivers



Note!

For information on connecting the devices, refer to the [Component Connection Manual](#).

### New

Ads-Tec StoraXe (Battery):

- StorageRackSystem, PowerBooster

INVT iMars XG-Serie:

- New models: XG17KTR, XG20KTR, XG22KTR, XG25KTR, XG30KTR, XG33KTR, XG36KTR, XG40KTR, XG50KTR, XG50KTRL, XG60KTR, XG60KTRL, XG66KTRL, XG70KTRL, XG100KTR-F, XG110KTR-F, XG136KTR-LF, XG136KTR-XF, XG1KTL-S, XG1.5KTL-S, XG2KTL-S, XG2.5KTL-S, XG3KTL-S, XG3.68KTL-S, XG4KTL-S, XG4.2KTL-S, XG4.6KTL-S, XG5KTL-S, XG3KTL-2M, XG3.68KTL, XG4KTL, XG4.2KTL, XG4.6KTL, XG5KTL, XG6KTL, XG7KTL, XG8KTL, XG10KTL, XG7KTL1, XG8KTL1, XG10KTL1, XG3KTR-S, XG4KTR-S, XG5KTR-S, XG6KTR-S, XG8KTR-S, XG9KTR-S, XG10KTR-S, XG11KTR-S, XG12KTR-S, XG15KTR1-S

## Component Drivers - Adjustments & Extensions

### Delta:

- New models: M50A Flex, M100A Flex

### Ginlong:

- The new version of Solis-3P15K-4G is now also supported.

### GoodWe Hybrid:

- Following data channels will be stored additionally: Pac per phase, Iac per phase, Uac per phase, battery voltage, battery current
- Newer ODM model names can now be read

### MyPV:

- The Solar-Log now always sends the correct target power to an AC Thor with less than 3kW of heating rods.

## Component Drivers - Bugfixes

### ABB Sunspec:

- Negative production values are now ignored.

### Diehl AKO:

- In some cases the devices were shown as offline even they provided valid data.

### Fimer Sunspec:

- Negative production values are now ignored.

### Fronius Sunspec:

- Fix communication and data collection during the night.

### Ginlong:

- Fix detection for some Solis80K-5G models.

### GoodWe HT:

- Power management now works properly.

### GoodWe Hybrid:

- Now also the data of a possibly second battery, which can be attached to the system, is monitored.

#### GoodWe Sunspec:

- Sunspec models are read correctly, even if communication is unstable.

#### Inepro:

- In some cases the yield was not recorded.

#### Kostal Standard:

- Speedup Ethernet communication.

#### Platinum:

- In some cases the devices were shown as offline even they provided valid data.

#### SMA Sunspec:

- Increase communication stability.

#### SolarEdge:

- Increase communication stability.

#### SolarEdge Hybrid:

- The device is now always detected as hybrid system and not as normal inverter without a battery unit.

#### Solar-Log Pro Meter:

- In some cases the yield was not recorded.

## Firmware adjustments, extensions & bug fixes

#### Decrease possibility of data corruption:

- An issue was found and fixed which led to data corruption in rare cases.

#### Device configuration:

- For devices with MPP trackers the module field of the first MPP Tracker was not configurable. This issue was introduced with firmware 6.1.0.

#### Legal Notices:

- Some Legal Notices for the used open source software were not shown in our local web-interface. This issue was introduced with firmware 6.1.0.

#### Link Local Addresses:

- The Link Local address will not be lost when switching between static IP and DHCP. This issue was introduced with firmware 6.1.0.

#### Networking:

- Gateway for Ethernet 2 can now be configured.

#### NTP:

- The time now also gets corrected if the time difference between Solar-Log and the NTP server is very high. This issue was introduced with firmware 6.1.0.

#### PM Feedbacks:

- Increase system stability in combination with invalid configurations.
- The RS485 Bus Analysis was not functional since 6.1.0. After starting the analysis, the operation never finished.

#### RS485 Bus Analysis:

- The RS485 Bus Analysis was not functional since 6.1.0. After starting the analysis, the operation never finished.

#### System stability in case of corrupted data:

- Data which was detected as corrupt will now be recovered if possible, otherwise deleted as before this update.

#### Yield calculation:

- Some devices provide us a daily yield, which gets reset on 0 o'clock.
- If the device does reset the daily at exactly 0 o'clock (different clock settings etc.) this led to a wrong daily yield. We improved the handling so this does not lead to an invalid yield for the whole day.

## Release Notes - 6.1.1 Build 164 - 03.05.2024

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Firmware releases extend the range of functions and contain improvements for the security, stability and reliability of your Solar-Log product. Compatibility of component drivers is improved by adaptations. The following release notes contain the most important new features.

### Component Drivers



#### Note!

For information on connecting the devices, refer to the [Component Connection Manual](#).

### New

#### Janitza:

- New model: UMG96RM-E

#### SolarEdge:

- Speed up power management commands over ethernet.

#### Sungrow:

- New models: SG100CX, SG250HX-IN, SG25CX-SA, SG49.5CX-JP, SG22RT, SG23RT, SG25RT, SG5.0RT-P2, SG6.0RT-P2, SG8.0RT-P2, SG10RT-P2, SG12RT-P2, SG15RT-P2, SG17RT-P2, SG20RT-P2, SG23RT-P2, SG25RT-P2, SG3.0RT-P2, SG4.0RT-P2, SG7.0RT-P2, SG5.5RS-JP, SG3.0RS-L, SG4.0RS-L, SG5.0RS-L, SG6.0RS-L, SG8.0RS-L, SG9.0RS-L, SG10RS-L, SG125HX, SG75CX, SG350HX-US (up to 12 MPPT and 24 Strings), SG320HX-20, SG350HX-20 (6 MPPT and 24 Strings), SG15CX-P2-LV, SG20CX-P2-LV, SG25CX-P2-LV, SG200HX-US

## Component Drivers - Adjustments & Extensions

### Diagnostics / Feed In Management / Utility Meter:

- Stability improved.

### Extended reach-ability in networks:

- Additionally to `http://solar-log` and `http://solar-log-xxxx` (last 4 digits of SN) to access the Webinterface, `http://solar-log.local` and `http://solar-log-xxxx.local` are now added. The new URLs are working on multiple OS like Windows, Linux, MacOS, iOS and Android, whereas the old URLs only work in combination with Windows.

### FTP(s) export:

- Now the correct Solar-Log serial number is provided by the `base_vars.js` which is written from FTP(s) export.

### Login passwords:

- We updated the storage format of all login passwords (User, Installer, Installer/PM) to an up to date cryptographic algorithm. Although the passwords are no longer part of the configuration and don't change if you apply a configuration.

### MOD 485:

- Communication stability improved (especially Feed In Management commands).

### MOD 485 RS485 payload communication:

- Serial communication configuration parameter "7 data bits" is now functional again.

### Modbus Inverter Data Feedback Qac is wrong:

- If the Qac is  $> 32767$  var or  $< -32768$  var the value is wrong.

### Modbus SCADA interface:

- Now the correct Solar-Log serial number is provided by the Modbus SCADA interface.

### ModbusTCP PM interface:

- New registers were added which includes the current Pac of each generator device.

### Self consumption:

- The energy for self consumption is now saved and displayed correct in all cases.

## Component Drivers - Bugfixes

### AROS:

- Monitoring for RS485 and RS422 driver fixed.

### Bonfiglioli Vectron SCB:

- Data monitoring fixed.

### Diehl AKO:

- The inverters are now shown as offline if can't communicate with them.

### Growatt MAX:

- General adjustments including:
  - correct tracker count is now determined.
  - all string values are read.
  - fixed daily yield.

### Huawei SUN2000 V2:

- For a few models the wrong number of strings were collected, if the devices were detected with a 5.x firmware version.

### Mencke&Tegtmeyer:

- Prevent insolation value to fallback to 0 in case of no communication.

### SMA SCB:

- Data monitoring fixed.

### SMA Speedwire:

- Speedwire displays correct status again.

### SolarEdge:

- Abnormal high yield values from the device will be filtered out.

## Release Notes - 6.1.0 Build 163 - 12.04.2024

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Firmware releases extend the range of functions and contain improvements for the security, stability and reliability of your Solar-Log product. Compatibility of component drivers is improved by adaptations. The following release notes contain the most important new features.

### Component Drivers



#### Note!

For information on connecting the devices, refer to the [Component Connection Manual](#).

### New

#### GoodWe HT:

- GW73KLV-HT, GW100K-HT, GW110K-HT, GW120K-HT, GW136K-HTH, GW150K-HTH, GW225K-HT, GW225KN-HT, GW250K-HT, GW250KN-HT

#### GoodWe Sunspec:

- New driver for GoodWe sunspec inverters:  
GW5000-MS, GW6000-MS, GW7000-MS, GW8000-MS, GW8500-MS, GW9000-MS, GW10K-MS, GW3600D-SS, GW4200D-SS, GW5000D-SS, GW3000-DNS-30, GW3600-DNS-30, GW4200-DNS-30, GW5000-DNS-30, GW6000-DNS-30, GW5000-DNS-BR30, GW6000-DNS-BR30, GW4K-DT, GW5K-DT, GW6K-DT, GW8K-DT, GW10K-DT, GW12K-DT, GW15K-DT, GW8KAU-DT, GW10KAU-DT, GW15KAU-DT, GW20KAU-DT, GW12KLV-MT, GW15KLV-MT, GW20KLV-MT, GW25K-MT, GW29.9K-MT, GW30K-MT, GW36K-MT, GW40KS-MT, GW50KS-MT, GW60KS-MT, GW50KS-MT-US, GW60KS-MT-US, GW73KLV-HT, GW75K-HT, GW80K-HT, GW100K-HT, GW110K-HT, GW120K-HT, GW136K-HTH, GW125K-HT-JP, GW225K-HT, GW250K-HT, GW700-XS, GW1000-XS, GW1500-XS, GW2000-XS, GW2500-XS, GW3000-XS, GW4000-SDT-20, GW5000-SDT-20, GW6000-SDT-20, GW8000-SDT-20, GW10K-SDT-20, GW12K-SDT-20, GW15K-SDT-20, GW17K-SDT-20, GW20K-SDT-20, GW4K-DT, GW5K-DT, GW6K-DT, GW8K-DT, GW10KT-DT, GW12KT-DT, GW15KT-DT, GW17KT-DT



#### GoodWe Sunspec (Continued):

- New driver for GoodWe sunspec inverters:  
GW20KT-DT, GW25KT-DT, GW25K-MT, GW29.9K-MT, GW30K-MT, GW36K-MT, GW50KN-MT,  
GW60KN-MT, GW75K-MT, GW80K-MT, GW50KBF-MT, GW60KBF-MT, GW75KBF-MT, GW80KBF-  
MT, GW30KLS-MT, GW35KLS-MT, GW70KHV-MT, GW80KHV-MT, GW12KLV-MT, GW15KLV-MT,  
GW20KLV-MT.

#### Intilion:

- New driver for scalebloc energy, power, powerboost and scalestac.

#### Kehua SPI Series:

- SPI250K-B-H, SPI200K-B-H, SPI225K-B-H, SPI175K-B-H, SPI136K-BHV, SPI125K-B, SPI100K-B.

#### Kernel:

- ST0N 0825, ST0N 1225, ST0N 1625, ST0N 2425, ST0HS 0825, ST0HS 1225, ST0HS 1625,  
ST0HS 2425.

#### SolaXPower X3-Commercial:

- New driver for SolaXPower X3-Commercial inverter:  
X3-MGA-40K-G2, X3-MGA-50K-G2, X3-MGA-60K-G2, X3-MGA-20K-G2-LV, X3-MGA-25K-G2-LV,  
X3-MGA-30K-G2-LV, X3-MGA-35K-G2-LV, X3-FTH-80K, X3-FTH-100K, X3-FTH-110K, X3-FTH-120K,  
X3-FTH-125K, X3-FTH-136K-MV, X3-FTH-150K-MV, X3-FTH-40K-LV, X3-FTH-50K-LV, X3-FTH-60K-  
LV, X3-FTH-70K-LV.

#### Weidmüller:

- New charging station driver:  
AC SMART ADVANCED, AC SMART VALUE and AC SMART ECO.

## Component Drivers - Adjustments & Extensions

#### ABB Sunspec:

- New model:  
PVS-175-TL

#### Azzurro V3:

- New models:  
HYD 5500-ZSS HP  
V4 models (these models have a 20 character serial number)  
3PH 100-110KTL-V4

#### Azzurro V3:

- Renamed models:  
3PH 15000-V3 -> 3PH 15000TL-V3  
3PH 17000-V3 -> 3PH 17000TL-V3  
3PH 20000-V3 -> 3PH 20000TL-V3  
3PH 22000-V3 -> 3PH 22000TL-V3  
3PH 24000-V3 -> 3PH 24000TL-V3
- Removed model:  
3PH 75KTL-HV

#### CCS:

- Support for usage as battery and consumption meter (bi-directional) added.

#### Fronius RS422 / SolarAPI:

- New models from the „Symo Advanced“ series:  
10.0-3-M, 12.5-3-M, 15.0-3-M, 17.5-3-M, 20.0-3-M

#### Fronius SunSpec Modbus / SolarAPI:

- Power Management gets now refreshed at least every 30 seconds (or on change).

#### Huawei, after appropriate tests and checks, we can now also release the following models:

- SUN2000-12KTL-M5, SUN2000-15KTL-M5, SUN2000-17KTL-M5, SUN2000-20KTL-M5, SUN2000-25KTL-M5, SUN2000-12K-MB0, SUN2000-15K-MB0, SUN2000-17K-MB0, SUN2000-20K-MB0, SUN2000-25K-MB0, SUN2000-15K-MB0-ZH, SUN2000-17K-MB0-ZH, SUN2000-20K-MB0-ZH, SUN2000-25K-MB0-ZH, SUN600-15KTL-ZHM0, SUN600-17KTL-ZHM0, SUN600-20KTL-ZHM0, SUN600-23KTL-ZHM0, SUN600-25KTL-ZHM0, SUN2000-15KTL-ZHM5, SUN2000-17KTL-ZHM5, SUN2000-20KTL-ZHM5, SUN2000-25KTL-ZHM5

#### Mennekes:

- Adding more Status and Error Codes.

#### SMA Sunspec v2:

- Speed up power management via Ethernet.

#### Sofar Solar G3:

- New models:  
HYD 5500-EP, 25KTLX-G3, 30KTLX-G3, 33KTLX-G3, 36KTLX-G3, 40KTLX-G3, 45KTLX-G3, 50KTLX-G3, ESI 3K-S1, ESI 3.68K-S1, ESI 4K-S1, ESI 4.6K-S1, ESI 5K-S1, ESI 5K-S1-A, ESI 6K-S1

#### Sofar Solar G3:

- G4 models (these models have a 20 character serial number):  
100KTLX-G4, 110KTLX-G4, 125KTLX-G4
- Renamed models:  
80KTL-LV -> 80KTL  
100KTL-LV -> 100KTL  
110KTL-LV -> 110KTL
- Removed model:  
75KTL-HV

#### SolarEdge:

- Speed up power management via Ethernet.

## Component Drivers - Bugfixes

#### AC THOR:

- If the heating element on an AC THOR 9S had less than 9kW the target power we set was too low.

#### Azzurro V3:

- Power Management is now also working correctly if more than one inverter is connected to the same RS485 bus.

#### ChargeX:

- Yield was too small by a factor of 10.

#### ComLynx:

- Improved power management timing.

#### Diehl AKO:

- Filter invalid values receiving from the inverter.

#### Fox ESS H3:

- The values yield, Pac and Idc are now stored correctly.

#### Fox ESS R:

- Improve data acquisition of devices which switch from not reachable to reachable state.
- Fault flags are correctly displayed.
- Computation of daily yield fixed.

#### Fronius Gen24:

- Now all bus addresses, not only 1, are found again during a device search when searching on RS485 (was an issue since 6.0.2).

#### GoodWe Hybrid:

- Yield data will now recording correctly.
- Device was detected two times on its real address and on 247.

#### Growatt Gen X:

- MPP tracker 9 - 12 are now also monitored correctly.

#### Growatt Modbus:

- Improved power management timing.

#### Huawei Smart Logger:

- The yield is now monitored correctly.

#### Huawei SUN2000 V2:

- Driver stability improved.

#### Huawei V1:

- When steering to 0% Pdc values are very high for a short time. Now those values get filtered out.

#### INVT:

- Improved power management timing.

#### Kaco Ethernet:

- Daily yield is now computed correctly.

#### Kaco RS485:

- Improve calculation of active power limit.

#### Kaco Sunspec:

- The data acquisition now works reliably after a Solar-Log reboot.

#### Keba:

- Directly after a reboot triggered via Webinterface, no devices were found by device search, if the same search was performed before the reboot.

#### Kostal Modbus TCP:

- The data acquisition now works reliably after a Solar-Log reboot.

#### Kostal Standard:

- Stability improved in case of Ethernet as interface.
- When searching for devices via Ethernet, it could happen that the search took an extremely long time, depending on the devices in the network.

#### Mencke&Tegtmeyer:

- Insolation value is now recorded correctly.

#### Mennekes:

- Yield was too small by a factor of 10.

#### MyPV:

- Status and Error messages are corrected.

#### Omron:

- Status is now determined correctly.

#### RCT Power:

- Calculation of yield adjusted.

#### Schneider Electric iEM3000:

- Support for active power control at the grid connection point.

#### SMA Modbus:

- The data acquisition now works reliably after a Solar-Log reboot.

#### SMA Speedwire:

- Directly after a reboot triggered via webinterface, no devices were found by device search, if the same search was performed before the reboot.

#### SMA Sunpec v2:

- Communication stability for Core1 and Core2 improved.
- The data acquisition now works reliably after a Solar-Log reboot.

#### Sofar Solar G3:

- Power Management is now also working correctly if more than one inverter is connected to the same RS485 bus.

#### Solar-Log Pro:

- Yield was wrong if the Meter is connected to a MOD485.

#### Solar-Log Pro:

- Yield was wrong if the Meter is connected to a MOD485.

#### SolarEdge:

- The data acquisition now works reliably after a Solar-Log reboot.
- Improve communication stability if a Commercial Gateway or Firefighter Gateway is used.
- Correctly disable power management ramps for inverter firmware versions  $\geq 3.2545$  and  $\geq 4.10.24$ .

#### Solplanet:

- Improve power management.

#### Sungrow:

- SG36CX-US is now correctly detected with 4 MPPTs.
- Invalid Pac peaks in the morning and evening are now filtered out.

#### Sungrow Hybrid:

- Yield data will now recording correctly.

#### Varta:

- Communication stability improved.
- The data acquisition now works reliably after a Solar-Log reboot.

## Firmware adjustments, extensions & bug fixes

#### Configuration / Data / Initial Yield:

- Dates provided with a 4 digit year are now processed correctly.
- Yearly statistic data is now always summed up correctly.

#### Configuration / Devices / Configuration:

- Automatic distribution of MPP tracker power is now always equal to the total generator power of the device. This mechanism is active during startup if the MPP tracker value of a device is not configured at this time.

#### Configuration / Direct Marketing:

- Following features are added:
  - Upload configuration files for Interconnector.
  - Visualization of current connection status to Interconnector.
- The settings now get saved instead of reset when a file upload is done before saving the changes.

#### Configuration / Feed In Management / Reactive Power:

- It is now possible to configure U/Uref and P/Pn values with 3 instead of 2 decimal places for the Curves Q(P/Pn), CosPhi(P/Pn), Q(U/Uc), CosPhi(U/Uc).

#### Device detection:

- Changed the default name for newly detected devices to "Device".

#### Device events:

- Fixed a bug where device events won't be shown anymore and in the web portal the inverters were shown as offline.

#### Extension modules:

- Communication stability increased if 1 of 2 extension modules has failed.

#### Feed In Management Feedbacks without ModbusTCP PM license:

- Feedbacks which do not need ModbusTCP PM as feedback output now work also without a ModbusTCP PM license.

#### Increase data acquisition stability in combination with meters:

- Increase data acquisition stability with specific meter configurations and not available meters.

#### Missing Status/Error Strings:

- All Status/Error strings will be written again to base\_vars.js during CSV Export via FTP.

#### Mod485 extension module:

- Stability improved.

#### Modbus TCP server:

- The Modbus TCP server now always accepts up to 4 parallel connections.

#### Network Configuration:

- When the Solar-Log is assigned an address by a DHCP server, the Solar-Log's hostname is now displayed in the router in the format SOLAR-LOG-XXXX. The last four characters in the hostname correspond to the last four digits of the serial number.
- Deny an incorrect subnetmask in the frontend and backend of the Solar-Log. Prevents saving of invalid configuration.

#### Power Management:

- In rare cases 0% was sent as command instead of the correct value.

#### Reactive Feed In Management - steering the $\cos(\phi)$ with digital inputs:

- Steering the  $\cos(\phi)$  through 5 digital inputs of an Adam Box (configured via PM profiles) was not working as expected. In previous versions, only the first 4 digital inputs were working.

#### Security and Stability:

- Several adjustments are done to increase the security and stability topics.

#### System stability in case of corrupted data:

- Improve detection and cleanup of corrupted data which could lead to system instability.



## Release Notes - 6.0.2 Build 162 - 25.09.2023

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Firmware releases extend the range of functions and contain improvements for the security, stability and reliability of your Solar-Log product. Compatibility of component drivers is improved by adaptations. The following release notes contain the most important new features.

### Component Drivers



#### Note!

For information on connecting the devices, refer to the [Component Connection Manual](#).

### New

#### Mennekes (Ethernet):

- Mennekes ev charger: ECU-BRx and ECU-BBx.

#### ChargeX (Ethernet):

- Aqueduct charging system: Aqueduct 1.0, Aqueduct 2.0.

#### Fox ESS (RS485):

- Fox ESS R series inverter:  
R75,R100, R110, R120, R136
- Fox ESS H3/AIO series hybrid inverter:  
AIO-H3-5.0, AIO-H3-6.0, AIO-H3-8.0, AIO-H3-10.0.

#### Growatt (RS485):

- Inverter driver for Mod, Max and Mid series.

## Component Drivers - Adjustments & Extensions

### ChintPower Modbus:

- New models:  
25(20)kW inverter series, 100kW(125kW)\_1500V inverter series

### Fronius Gen24:

- PM timeout is set to 30s this means if the Solar-Log stops sending PM commands the inverter will fallback to it's PM fallback value.

### Ginlong S5/S6:

- New models:  
S5-GR1P0.7K-1, S5-GR1P1K-M, S5-GR1P1.5K-M, S5-GR1P2K-M, Solis-3P5K-4G-AU-MX, Solis-3P8K-4G-AU-MX, Solis-1P6K-4G-US, Solis-1P7.6K-4G-US, Solis-1P8.6K-4G-US, S5-GR1P3.6K-M, S5-GR1P2.5K-M, S5-GR1P3K-M, S5-GR1P2.5K, S5-GR1P3K, S5-GR1P3.6K, S5-GR1P4K, S5-GR1P4.6K, S6-GR1P0.7K-M, S6-GR1P1K-M, S6-GR1P1.5K-M, S6-GR1P2K-M, S6-GR1P2.5K-M, S6-GR1P3K-M, S6-GR1P3.6K-M, S6-GR1P7K-M-LV, S6-GR1P2.5K, S5-GC25K, S5-GC30K, S5-GC33K, S5-GC36K-AU, S5-GC40K-AU, S5-GC40K-HV-AU, S5-GC50K-HV-AU, S5-GC50K IN, S5-GC60K IN, S5-GC60K-HV, S5-GC70K-HV, S5-GC25K-LV, S5-GC30K-LV, S5-GC36K-LV, S5-GC124K-HV, S5-GC124K-HV, Solis-80K-5G-PRO, Solis-110K-5G-PRO, Solis-100K-5G-PRO, GCI-230K-EHV-5G, Solis-250K-EHV-5G-PLUS, Solis-255K-EHV-5G-PLUS, Solis-185K-EHV-5G-US-PLUS, GCI-196K-EHV-5G-PLUS, GCI-215K-EHV-5G-PLUS, GCI-215K-EHV-5G-PLUS, S6-GR1P3K, S6-GR1P3.6K, S6-GR1P4K, S6-GR1P4.6K, S6-GR1P5K, S6-GR1P6K, S6-GR1P2.5K-LV, S6-GR1P3K-LV, S6-GR1P3.8K-LV, S5-GR1P7K2, S5-GR1P8K2, S5-GR1P7K, S5-GR1P8K, S5-GR1P9K, S5-GR1P10K, S5-GR1P6K, S5-GR1P7.6K, S5-GR1P8.6K, S5-GR1P8K, S5-GR1P9K, S5-GR1P10K, S5-GR3P3K, S5-GR3P4K, S5-GR3P5K, S5-GR3P6K, S5-GR3P8K, S5-GR3P9K, S5-GR3P10K, S5-GR3P12K, S5-GR3P13K, S5-GR3P15K, S5-GR3P17K, S5-GR3P20K, S5-GR3P23K, S5-GR3P25K, S5-GR3P12K, S5-GR3P13K, S5-GR3P15K, S5-GR3P5K, S5-GR3P6K, S5-GR3P8K, S5-GR3P9K, S5-GR3P10K, S5-GR3P5K-HV, S5-GR3P6K-HV, S5-GR3P8K-HV, S5-GR3P9K-HV, S5-GR3P10K-HV, S5-GR3P12K-HV, S5-GR3P15K-HV, S5-GR3P17K-HV, S5-GR3P20K-HV, S5-GR3P5K-LV, S5-GR3P6K-LV, S5-GR3P10K-LV

### Adam I/O Module:

- Communication status is now shown in local Web interface.

### KACO (RS485):

- New models:  
KACO blueplanet 50 NX3 M5, KACO blueplanet 60 NX3 M5

### my-PV:

- New models:  
AC ELWA 2

#### Sungrow Hybrid:

- New models:  
SH3.0RS, SH4.0RS, SH5.0RS, SH5.0RT-20, SH6.0RT-20, SH8.0RT-20, SH10RT-20, SH5.0RT-V112,  
SH6.0RT-V112, SH8.0RT-V112, SH10RT-V112, SH5.0RT-V122, SH6.0RT-V122, SH8.0RT-V122,  
SH10RT-V122

## Component Drivers - Bugfixes

#### ABB PVI/TRIO/Ultra/UNO:

- Reactive power management fixed.

#### Adam 4050:

- Functional improvements.

#### Azzurro V3:

- Driver is now named V3 instead of G3.
- Etotal and PAC values during battery charging/discharging corrected.

#### CanadianSolar CSI-CT:

- Power management improved.

#### ChintPower Modbus:

- Power management improved.

#### Evoco:

- Reliability of yield data improved.

#### Fronius Hybrid:

- Improved meter value monitoring when using Sunspec.

#### Ginlong 5G:

- For some models DC values are corrected/included in device table.

#### Huawei Smart Logger:

- The sign for the reactive power commands is now correct.

#### Huawei SUN2000 V2:

- Daily yield didn't reset to 0 at midnight. If this update is installed the yield data wont increase for the rest of the day. If possible install it in the evening.

#### Huawei V2:

- Communication reliability improved.

#### Inepro:

- Yield is calculated correctly even if the meter has been installed the wrong way.

#### Kostal Sunspec:

- Include negative Pac values.

#### Kostal TCP:

- Communication stability improved.

#### Mod485 extension module:

- Improved interface recognition after Solar-Log reboot.

#### my-PV:

- After a firmware update from < 6.0, the AC ELWA was not fully functional anymore.

#### Oelmaier:

- Included in firmware generation 6.

#### QCells:

- Reliability of yield data improved.

#### RCT Power:

- Reliability of yield data improved.

#### Schneider iEM3000:

- Reliability of yield data improved.

#### SMA Modbus:

- Communication improvement with enabled power management.

#### SofarSolar G3:

- KTLX-G3 devices require to set power management registers in a batch. Corrected PAC if the battery is charged/discharged.

#### Solaredge Hybrid:

- If two batteries are installed battery values are now correct.

#### Solarmax:

- Show correct status.

#### Solectria V4:

- Power management didn't work with newer inverter firmware versions.

#### Solplanet:

- Power and device detection management improved.

#### Sonnen Eco 8:

- Increase system stability during battery detection improved.
- Reliability of yield data improved.

#### Sungrow:

- Fixed Communication over Modbus TCP.

#### Sungrow Hybrid:

- Power management improved.

#### Varta:

- Communication reliability improved.
- Reliability of yield data improved.

## Firmware adjustments, extensions & bug fixes

#### Configurable feedback values for Adam box:

- On the tab Configuration / Feed In Management / Feedbacks it's now possible to configure a minimum value which is higher than the maximum value.

#### Feedback value Modbus V3:

- Possible production power feedback register is filled without active direct marketing.

#### PM History wrong DM entries:

- PM history entry handling improved.

#### Wrong yearly and total yield displayed:

- Yield data calculation for Year and Total improved.

#### Solar-log loses Config after 3 years:

- System stability for a Solar-Log with a runtime over more than 3 years increased. For FW5 from V5.1.2 (Build 157 - 06.07.2023) and for FW6 from V6.0.1 (Build 161 - 08.05.2023) and higher resolved.

## Release Notes - 6.0.1 Build 161 - 08.05.2023

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Firmware releases extend the range of functions and contain improvements for the security, stability and reliability of your Solar-Log product. Compatibility of component drivers is improved by adaptations. The following release notes contain the most important new features.

### Component Drivers



#### Note!

For information on connecting the devices, refer to the [Component Connection Manual](#).

### New

#### CSS Meter (RS485):

- WattNode Series: WND-WR-MB.

#### GoodWe Hybrid (RS485):

- GW5K-ET, GW6.5K-ET, GW8K-ET, GW10K-ET, GW15K-ET, GW20K-ET, GW25K-ET, GW29.9K-ET, GW5KN-ET, GW6.5KN-ET, GW8KN-ET, GW10KN-ET

#### Kaco (Ethernet):

- New Driver: Kaco Sunspec. Existing driver was renamed to Kaco Generic.

#### Sofarsolar Inverter (RS485): New Driver for G3 protocol

- 3KTLM-G3, 3.68KTLM-G3, 4KTLM-G3, 4.6KTLM-G3, 5KTLM-G3, 6KTLM-G3, 3.3KTLX-G3, 4.4KTLX-G3, 5.5KTLX-G3, 6.6KTLX-G3, 8.8KTLX-G3, 11KTLX-G3, 12KTLX-G3, 15KTLX-G3, 17KTLX-G3, 20KTLX-G3, 22KTLX-G3, 24KTLX-G3, 25KTLX-G3, 30KTLX-G3, 33KTLX-G3, 36KTLX-G3, 40KTLX-G3, 45KTLX-G3, 50KTLX-G3, 80KTL-LV, 100KTL-LV, 110KTL-LV, 75KTL-HV, 100KTL-HV, 125KTL-HV, 136KTL-HV, 250KTL-HV, 255KTL-HV

#### Sofarsolar Hybrid system (RS485): New Driver for G3 protocol

- HYD 3000-ES, HYD 3600-ES, HYD 4000-ES, HYD 4600-ES, HYD 5000-ES, HYD 6000-ES, HYD 3000-EP, HYD 3600-EP, HYD 4000-EP, HYD 4600-EP, HYD 5000-EP, HYD 6000-EP, HYD 5KTL-3PH, HYD 6KTL-3PH, HYD 8KTL-3PH, HYD 10KTL-3PH, HYD 15KTL-3PH, HYD 20KTL-3PH, HYD 110KTL-3PH

#### ZCS Azzurro Inverter (RS485): New Driver for V3 protocol

- 1PH 3000 TLM-V3, 1PH 3680 TLM-V3, 1PH 4000 TLM-V3, 1PH 4600 TLM-V3, 1PH 5000 TLM-V3, 1PH 6000 TLM-V3, 3PH 3.3KTL-V3, 3PH 4.4KTL-V3, 3PH 5.5KTL-V3, 3PH 6.6KTL-V3, 3PH 8.8KTL-V3, 3PH 11KTL-V3, 3PH 12KTL-V3, 3PH 15000-V3, 3PH 17000-V3, 3PH 20000-V3, 3PH 22000-V3, 3PH 24000-V3, 3PH 25KTL-V3, 3PH 30KTL-V3, 3PH 33KTL-V3, 3PH 36KTL-V3, 3PH 40KTL-V3, 3PH 45KTL-V3, 3PH 50KTL-V3, 3PH 80KTL-LV, 3PH 100KTL-LV, 3PH 110KTL-LV, 3PH 75KTL-HV, 3PH 100KTL-HV, 3PH 125KTL-HV, 3PH 136KTL-HV, 3PH 250KTL-HV, 3PH 255KTL-HV

#### ZCS Azzurro Hybrid system (RS485): New Driver for V3 protocol

- HYD 3000-ZSS, HYD 3600-ZSS, HYD 4000-ZSS, HYD 4600-ZSS, HYD 5000-ZSS, HYD 6000-ZSS, HYD 3000-ZSS HP, HYD 3600-ZSS HP, HYD 4000-ZSS HP, HYD 4600-ZSS HP, HYD 5000-ZSS HP, HYD 6000-ZSS HP, HYD 3PH 5000 ZSS, HYD 3PH 6000 ZSS, HYD 3PH 8000 ZSS, HYD 3PH 10000 ZSS, HYD 3PH 15000 ZSS, HYD 3PH 20000 ZSS, HYD 3PH 110000 ZSS

## Adjustments - Extensions

#### Huawei SUN2000 V2:

- Hybrid systems read/show daily generation of according meter.

#### Ingeteam:

- Ingecon Sun 1play / 3Play Reactive power command is sent as Unicast instead of Broadcast.

#### Kaco:

- Kaco Generic: Support of blueplanet NX3 models.
- Support of blueplanet TL3 models.

#### Kostal Modbus TCP:

- Power Management uses a Broadcast for inverter with Kostal Firmware MC >= 60090-06, IOC >= 00220-07.

#### Schneider Electric's iEM3000 Series:

- Net-Meter mode is now selectable.

#### SMA Sunspec V2 - (New models):

- STP 50-US-40, STP 50-JP-40, STP 62-US-41, STP 50-US-41, STP 33-US-41, STP 50-41, STP 50-JP-4

#### Sofarsolar:

- Support of SOFAR 3300TL-V3 via G1/G2 protocol.

#### SolarMax - (New models):

- 20HT2, 20HT4, 25HT2, 25HT4

#### Sungrow - (New models):

- SG250HX, SG250HX-US, SG320HX\*, SG350HX\*, SG125HX-JP, SG25CX-P2, SG30CX-P2, SG33CX-P2, SG36CX-P2, SG40CX-P2, SG50CX-P2, SG125CX-P2, SG110CX-P2, SG110HX-CN, SG285HX, SG333HX\*
- Models marked with a \* are only supported for up to 12 MPPTs and 24 Strings.

#### ZCS Azzurro:

- Support of AZZURRO 3300TL-V3 via G1/G2 protocol.

## Bug fixes

#### ABB Sunspec:

- Increase communication reliability.

#### Delta Sunspec M50A:

- Scaling of Pac corrected.

#### Diehl AKO:

- Udc, Idc and Pdc of each MPP tracker will be stored again (Issue in Firmware 6.0.0).
- Fixed scaling of some values.
- Temperature will be stored.

#### EGO:

- System stability improved.

#### Extension modules:

- Firmware update stability increased.

#### Fimer:

- Communication reliability improved.

#### Fronius:

- System stability improved.



#### Huawei SUN2000 V2:

- Negative Pac of inverter is interpreted as 0.
- Hybrid systems show invalid SOC (State of charge) as 0.

#### Platinum:

- Udc, Idc and Pdc of each MPP tracker will be stored again (Issue in Firmware 6.0.0).
- Fixed scaling of some values.
- Temperature will be stored.

#### Kostal Modbus TCP:

- Read values of the 4th MPP Tracker.
- Reliability of device detection increased.

#### MOD485 extension module:

- Improve communication stability with Solar-Log.

#### M&T Sensor:

- Insolation value [Wh/m<sup>2</sup>] is calculated correctly again (Issue in Firmware 6.0.0).

#### SMA Modbus:

- Improve power management.

#### SMA Sunspec V2:

- System stability during inverter detection improved.

#### SolarEdge:

- RS485:
  - Power Management now also works if some inverters are not available.
- Ethernet:
  - If there is already a connection between the Solar-Log and a device, a new search will fail.
  - Reliability of device detection increased.

#### SolarEdge Hybrid:

- Pac, Pdc and battery values are now correctly stored.

#### Sungrow:

- Temperature and daily generation corrected. DC values at night time are validated.

#### Sungrow Hybrid:

- Stability increased.

#### Varta:

- All devices will be detected reliable (Issue in Firmware 6.0.0).
- System stability in combination with this driver increased.
- Yield was by factor 10 too high.

### Firmware adjustments, extensions & bug fixes

- Automatic time synchronization is functional again (Issue in Firmware 6.0.0).
- Device search: if among other devices a Solar-Log PRO was searched, it was possible that not all devices were found.
- Firmwareupdate:
  - Firmware updates failed without authentication as Installer.
  - Firmware update information: only new (not confirmed) update information will be shown.
- SCB (String Combiner Boxes): SCB configuration was lost after controller reboot.
- Solar-Log Portal configuration: data.enerest.world is now set as default portal server.
- System stability for a Solar-Log with a runtime over more than 3 years increased.
- WEB-UI:
  - Displaying issue with the speedometer in live cockpit fixed.
  - Configuration assistant: improvements in visualization (e.g. progress bar).
  - Configuration | Feed In Management | Remote Control: when activating the ModbusTCP PM interface without a installed PM Pro license, a error message won't be shown anymore.
  - Improved content updated after change in language selection.

## Release Notes - 6.0.0 Build 160 - 27.01.2023

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Firmware releases extend the range of functions and contain improvements for the security, stability and reliability of your Solar-Log product. Compatibility of component drivers is improved by adaptations. The following release notes contain the most important new features.

### Component Drivers



Note!

For information on connecting the devices, refer to the [Component Connection Manual](#).

### New

#### Fimer

- PVS-10-TL, PVS-12,5-TL, PVS-15-TL, PVS-20-TL, PVS-30-TL, PVS-33-TL, PVS-50-TL, PVS-60-TL, PVS-100-TL, PVS-120-TL.

#### Fronius

- Primo Gen24:  
3.0 Plus, 3.6 Plus, 4.0 Plus, 4.6 Plus, 5.0 Plus, 6.0 Plus, 8.0 Plus, 10.0 Plus.
- Symo Gen24:  
3.0, 4.0, 5.0, 6.0, 8.0, 10.0.
- Tauro:  
50-3-D, ECO 50-3-D, ECO 99-3-D, ECO 100-3-D.  
50-3-P, ECO 50-3-P, ECO 99-3-P, ECO 100-3-P.

## Ginlong

- Ginlong Solis-5G:  
Solis-1P7K-5G, Solis-1P8K-5G, Solis-15K-LV-5G, Solis-20K-LV-5G, Solis-23K-LV-5G, Solis-25K-5G, Solis-25K-LV-5G, Solis-30K-5G, Solis-30K-5G-AU, Solis-30K-LV-5G, Solis-33K-5G, Solis-36K-5G, Solis-36K-HV-5G, Solis-36K-LV-5G, Solis-40K-5G, Solis-40K-HV-5G, Solis-50K-5G, Solis-50K-HV-5G, Solis-50K-LV-5G, Solis-50K-LV-5G-PLUS, Solis-60K-5G, Solis-60K-HV-5G, Solis-60K-LV-5G, Solis-60K-LV-5G-PLUS, Solis-70K-5G, Solis-70K-HV-5G, Solis-75K-5G, Solis-75K-5G-PLUS, Solis-75K-HV-5G-PLUS, Solis-80K-5G, Solis-80K-5G-PLUS, Solis-80K-HV-5G, Solis-80K-HV-5G-PLUS, Solis-90K-5G, Solis-90K-HV-5G, Solis-90K-HV-5G-PLUS, Solis-100K-5G, Solis-100K-5G-PLUS, Solis-100K-HV-5G, Solis-100K-HV-5G-PLUS, Solis-104K-EHV-5G, Solis-110K-5G, Solis-110K-5G-PLUS, Solis-110K-BHV-5G, Solis-110K-BHV-5G-PLUS, Solis-124K-HV-5G, Solis-125K-BHV-5G, Solis-125K-BHV-5G-PLUS, Solis-125K-EHV-5G, Solis-125K-EHV-5G-PLUS, Solis-125K-HV-5G, Solis-125K-HV-5G-PLUS, Solis-136K-BHV-5G, Solis-136K-BHV-5G-PLUS, Solis-185K-EHV-5G, Solis-185K-EHV-5G-PLUS, Solis-196K-EHV-5G-PLUS, Solis-215K-EHV-5G-PLUS, Solis-230K-EHV-5G, Solis-230K-EHV-5G-PLUS, Solis-250K-EHV-5G, Solis-250K-EHV-5G-PLUS, Solis-255K-EHV-5G, Solis-255K-EHV-5G-PLUS.
- Ginlong S5/S6:  
S5-GC15K-LV, S5-GC20K-LV, S5-GC23K-LV, S5-GC25K, S5-GC25K-HV, S5-GC25K-LV, S5-GC30K, S5-GC30K-LV, S5-GC33K, S5-GC33K-HV, S5-GC36K, S5-GC36K-LV, S5-GC40K, S5-GC40K-HV, S5-GC50K, S5-GC50K-HV, S5-GC60K, S5-GC60K-HV, S5-GC70K-HV, S6-GU320K-EHV, S6-GU350K-EHV

## Huawei:

- Power management of the inverters via the Huawei Smart Logger.

## my-PV

- AC-THOR / AC-THOR 9s.

## Real Energy Systemys

- Prisma 310A, Prisma 310A-Lite.

## Schneider Electric

- Schneider Electric iEM3000 Series:  
3150, 3155, 3250, 3255, 3350, 3355, 3455, 3555.

## SMA

- SMA Sunny Tripower Core2.

## Solplanet

- ASW30K-LT-G2, ASW33K-LT-G2, ASW36K-LT-G2, ASW40K-LT-G2, ASW45K-LT-G2, ASW50K-LT-G2, ASW3K-LT-G2, ASW4K-LT-G2, ASW5K-LT-G2, ASW6K-LT-G2, ASW8K-LT-G2, ASW10K-LT-G2, ASW12K-LT-G2, ASW13K-LT-G2, ASW15K-LT-G2, ASW17K-LT-G2, ASW20K-LT-G2, ASW3K-LT-G2-Pro, ASW4K-LT-G2-Pro, ASW5K-LT-G2-Pro, ASW6K-LT-G2-Pro, ASW8K-LT-G2-Pro, ASW10K-LT-G2-Pro, ASW12K-LT-G2-Pro, ASW13K-LT-G2-Pro, ASW15K-LT-G2-Pro, ASW17K-LT-G2-Pro, ASW20K-LT-G2-Pro.

## Sungrow

- Sungrow Residential Hybrid:  
SH5K-20, SH3K6, SH4K6, SH5K-V13, SH5K-30, SH3K6-30, SH4K6-30, SH5.0RS, SH3.6RS, SH4.6RS, SH6.0RS, SH5.0RT, SH6.0RT, SH8.0RT, SH10RT.

## Adjustments & Extensions

### ABB Sunspec (New models):

- PVS-50-TL, PVS-60-TL, PVS-100-TL, PVS-120-TL.

### Extension module:

- The Solar-Log MOD 485 module expands the Solar-Log Base models by 4 x RS485 interfaces.

### Huawei (New models):

- SUN2000-2KTL-L0, SUN2000-3KTL-CNLO, SUN2000-3KTL-L0, SUN2000-3.8KTL-USLO, SUN2000-4KTL-CNLO, SUN2000-4KTL-L0, SUN2000-4.95KTL-JPLO, SUN2000-5KTL-USLO, SUN2000-5KTL-CNLO, SUN2000-5KTL-L0, SUN2000-6KTL-CNLO, SUN2000-7.6KTL-USLO, SUN2000-9KTL-USLO, SUN2000-10KTL-USLO, SUN2000-11.4KTL-USLO, SUN2000-15KTL-M3, SUN2000-17KTL-M3, SUN2000-20KTL-M3, SUN2000-23KTL-M3, SUN2000-25KTL-NAM3, SUN2000-28KTL-M3, SUN2000-29.9KTL-M3, SUN2000-30KTL-M3, SUN2000-36KTL-M3, SUN2000-40KTL-M3, SUN2000-42KTL-M3, SUN2000-44KTL-M3, SUN2000-50KTL-M3, SUN2000-30KTL-NAM3, SUN2000-33KTL-NAM3, SUN2000-36KTL-NAM3, SUN2000-40KTL-NAM3, SUN2000-43KTL-INM3, SUN2000-20KTL-M3, SUN2000-29.9KTL-M3, SUN2000-30KTL-M3, SUN2000-36KTL-M3, SUN2000-40KTL-M3, SUN2000-30KTL-M3, SUN2000-12KTL-M1, SUN2000-125KTL-JPH0, SUN2000-196KTL-H0, SUN2000-200KTL-H2, SUN2000-215KTL-H0.
- Transmission of string values for devices with string monitoring.

### Janitza (only RS485) (New models):

- UMG96-PA, UMG96-PA MID, UMG96-PA MID+.

### Kaco:

- Capture of additional data channels: Uac1, Uac2, Uac3, Iac1, Iac2, Iac3, CosPhi.

#### Kostal TCP: PIKO CI Series über Ethernet (New models):

- PIKO CI 30/50/60.

#### QX Protocol 9:

- Capture of additional data channels: Uac1, Uac2, Uac3, Iac1, Iac2, Iac3, CosPhi.

#### RCT Power (New models):

- Power Storage DC 8.0, Power Storage DC 10.0.

#### RefuSol (New models):

- 20K-2T (850P020), 33K-2T (850P033), 40K (842P040), 46K (842P046), 50K-3T (850P050), 100K (880P100).

#### Schüco:

- Capture of additional data channels: Uac1, Uac2, Uac3, Iac1, Iac2, Iac3, CosPhi.

#### SolarEdge

Ethernet interface support for suitable inverters.

New hybrid inverter:

- SE2200H-RWS, SE3000H-RWS, SE3680H-RWS, SE4000H-RWS, SE5000H-RWS, SE5K-RWS, SE7K-RWS, SE8K-RWS, SE10K-RWS.

#### SMA CORE1 (New models):

- STP 50-US-40, STP 50-JP-40, STP 62-US-41, STP 50-US-41, STP 33-US-41, STP 50-41, STP 50-JP-4

#### SMA Modbus (New models):

- STP3.0-3AV-40, STP4.0-3AV-40, STP5.0-3AV-40, STP6.0-3AV-40, STP8.0-3AV-40, STP10.0-3AV-40, STP 15000TL-30, STP 20000TL-30, STP 25000TL-30, SHP 100-20, SHP 150-20, SHP 125-US-20, SHP 150-US-20, SHP 100-JP-20, SHP 150-JP-20.
- Reactive power control via Q added.

#### SMA Net:

- Support of baud rate of 19,200 bit/s for suitable models.

#### Smart Relais Station:

- Support of Smart Relay Station v2 (article number: 257257).

#### Solutronic Protocol 9:

- Now more channels are recorded: Uac1, Uac2, Uac3, Iac1, Iac2, Iac3, CosPhi.

#### Sungrow (New models):

- SG8KTL-M, SG10KTL-M, SG12KTL-M, SG15KTL-M, SG17KTL-M, SG20KTL-M, SG30KTL-M, SG-36KTL-M, SG50KTL-M-20, SG30KTL-M-V31, SG5KTL-MT, SG6KTL-MT, SG10KTL-MT, SG111HV, SG125HV, SG125HV-20, SG33K3J, SG36CX-US, SG60CX-US, SG3.0RT, SG4.0RT, SG5.0RT, SG6.0RT, SG7.0RT, SG8.0RT, SG10RT, SG12RT, SG15RT, SG17RT, SG20RT.
- Transmission of string values for devices with string monitoring.

#### Vaillant:

- Now more channels are recorded: Uac1, Uac2, Uac3, Iac1, Iac2, Iac3, CosPhi.

## Bug fixes

- ABB Sunspec:
  - Bug in Q control fixed.
  - Stability of active power reduction and reactive power control increased.
- AEG Protect: Stability increased.
- Astroenergy: Stability increased.
- Bonfiglioli / Vectron: Stability increased.
- Danfoss - Comlynx: Stability increased.
- Delta Sunspec: Stability increased.
- Diehl Ako: Communication stability improved.
- DMM: Stability increased.
- Effekta: Stability increased.
- Elkor Wattson and Schneider EM6400S: Stability increased.
- Fronius Gen24:
  - Display the correct Pac value.
- Fronius TCP: Stability increased.
- GoodWe: Stability of the reactive power functionality increased.
- Growatt Mod And Max:
  - Stability increased.
  - The prioritization of error messages has been adjusted.
- HIQ: Stability increased.
- Hoval: Stability during increase increased.
- Huawei V1: Active power reduction now also works for 60KTL-HV-D1, 45KTL-US-HV-D0, 55KTL-HV-D1, 55KTL-IN-HV-D1, 55KTL-HV-D1-001, 60KTL-HV-D1-001.
- Huawei V2: Output of DC string values improved.
- INVT: Stability increased.
- Iskra: Stability increased.
- Kehua: Stability increased.
- Kostal: Removed incorrect plausibilization of Pac values.

- Kostal TCP: Status messages corrected.
- M&T Sensor: Devices with address 0 are now also detected.
- Omron: Stability increased.
- Platinum: Communication stability improved.
- Refusol: Communication improved and stability increased.
- SMA Modbus:
  - GridGuard code can be entered via the Plant password input field.
- SMA Speedwire: Stability increased.
- SMA Sunny Island: Stability increased.
- SMA Sunspec V2: Handling of error messages improved.
- Sofarsolar: Active power reduction for Sofarsolar 50KTL-70KTL devices revised.
- Solar-Log™ PRO380: Maximum recordable values increased.
- Solarmax: Reactive power control improved.
- Sungrow Hybrid: Device communication improved.
- Sungrow Residential Hybrid: Data recording now also works via Modbus TCP.
- Surpass: Stability increased.
- Varta:
  - Detection meter also for models one L/XL, element, flex (with serial number 601x).
  - Data capture improved.
  - Varta and Varta Flex: improvement of the detection process.
- Zentralpower: Stability increased.

## Firmware adjustments, extensions & bug fixes

- Time:
  - The time can now only be changed if NTP is deactivated.
  - NTP: the NTP servers can now be reconfigured (up to 10 servers can be stored).
- All device drivers have been extensively revised in terms of speed and stability.
- CSV files:
  - Files are generated in UTF-8 format (previously Windows-1252).
  - Incorrect column headings corrected.
- FTP export:
  - Special characters allowed in password.
- Feed-in management:
  - Control: Active power control to a measuring point, for self-consumption optimization is now possible, if the components are suitable for this.
  - PM Pro license: The Solar-Log PM Pro license is now available for VDE-AR-4110 compliant control. It enables the use of extended functions for power control. (see [PM control manual](#))



- The master-slave control is replaced by the composite control. A license must be purchased to use it. **ATTENTION:** The existing master-slave configuration is not taken over.
- The active power mode „Reduction to percentage of consumption“ is replaced by the new function „Active power control“.
- The Modbus V1 interface is no longer supported and is replaced by Modbus V2.