Release Notes - 6.1.1 Build 164 - 03.05.2024

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 where 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

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, GW-15KAU-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, 50KT-LX-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 then 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 >= 3.2545 and >= 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

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:

- Imporved 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

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 Electrics 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/m²] 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

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 Electrics

- Schneider Electrics 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-CNL0, SUN2000-3KTL-L0, SUN2000-3.8KTL-USL0, SUN2000-4KTL-CNL0, SUN2000-4KTL-L0, SUN2000-4.95KTL-JPL0, SUN2000-5KTL-USL0, SUN2000-5KTL-CNL0, SUN2000-5KTL-L0, SUN2000-6KTL-CNL0, SUN2000-7.6KTL-USL0, SUN2000-9KTL-USL0, SUN2000-10KTL-USL0, SUN2000-11.4KTL-USL0, 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.

- 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.