

### V3.11.00 Build 10 (February 2018)

#### Changes/New Features

- Ported XW+ timer to CSW to improve reliability and performance of timer functions.
- Improved Load Shave startup to better manage inrush currents.
- Improved operation of Triac short circuit relay when battery voltage drops below Low Battery Cut Out voltage.
- Improved Triac relay operation when starting Dead Battery Charging which minimizes inrush currents.
- Added support current derating for SellScalePercentage in GridTieCfg PGN to support Conext Bridge.
- Changed battery discharge over current fault to manual fault, and the default time from 10 seconds to 8 seconds.
- Added GTS command.
- Fixed a bug so that CSW can follow the charging current set-point from External BMS/CBG, and cap the set-point to maximum instead of discard it.
- Fixed a bug so that CSW can stay in CC/CV mode and don't follow MPPT to BULK mode.
- When External BMS/CBG is in the system, CSW will use the Max Discharge Current in BmsSts PGN from External BMS/CBG instead of the internal Max Discharge Current setting, and the current will be the inverter current plus the sum of the MPPT current.
- Changed to only write to EEPROM while in standby mode.
- Fixed battery current surge in AC support which could trigger EEPROM error.
- Fixed Peak Load Shaving transient problem at start up.
- Fixed fault F72 AC association mismatch issue.
- Fixed CSW tracks Generator Frequency down to 40Hz as Gen stops after Cool Down.
- Fixed charging problems with Lithionics batteries.
- Fixed Custom battery type charge Absorption voltage tied to Bulk voltage.

### V3.08.00 Build 4 (April 2017)

#### Changes/New Features

- Fixed CSW split phase AC backfeed problem.
- Fixed CSW tracks Generator Frequency down to 40Hz as Gen stops after Cool Down.
- Fixed charging problems with Lithionics batteries.
- Fixed Custom battery type charge Absorption voltage tied to Bulk voltage.

### V3.07.00 Build 3 (November 2016)

#### Changes/New Features

- Fixed issue when inverter load current values were showing as zero.
- Shortened AC grid disqualification time due to high grid voltage from 2 AC cycles to one full cycle to avoid a transient to pass through to the loads.
- Improved generator qualification algorithm.
- Added delay when transferring from Grid to Inverter to eliminate back feeding the grid.
- Added additional over current protection F65 Fault to protect against excessive AC over Load.

### V3.05.00 Build 4 (August 2016)

#### Changes/New Features

- Improve Stability of parallel stacking
- Change split phase exit Load Shave strategy so unit can wait until both lines drop below the load shave exit value
- Code update to allow other unit to continue to charge (and not get effected) when one unit got into a Transformer Over Temperature Fault
- Added ACSYNC ACTIVE at exit for CSW (Because RMS sampling intervals are not equal, the sampling position now will be locked with input voltage waveform)
- CSW multi-unit shall wait for MPPT on the absorption exit
- Turn off Aux power supply at DC under voltage immediate shutdown to stop XanBus devices from draining battery

- Increased the maximum Bulk exit voltage to maximum desired Bulk voltage, changed default Bulk exit voltage, and added check to Bulk exit voltage to make sure it is always less than desired Bulk voltage.
- Fixed split phase L2 AcStsRms reporting data fluctuating.

### V3.03.00 Build 5 (September 2015)

#### Changes/New Features

- Fixed issue with Load Shave Delay
- Can only select External Battery Management System Charge Cycle with the Lithium Ion Battery type.
- Changed Load Shave Amps minimum setting to 1A.
- Adjusted the Transformer Over-Temperature Fault Levels.
- Fixed issue with Low Battery Cut Out during AC Support.
- Fixed issue where Low Battery Cut Out was not enabled in AC Coupling.

### V3.01.00 Build 19 (February 2015)

#### Changes/New Features

- AC Coupling
- Grid Support (Self Consumption)
- Enhanced Grid Support (MPPT interactive)
- Grid Support based on SOC
- Peak Load Shaving (Gen Support with no AGS)
- Peak Load Shave 2 hour delay
- Battery Monitor Support
- Lion Battery Support with BMS communication and CV/CC charge mode
- Smart Charge
- No Load Voltage De-rating (Output Voltage varies linearly with load)
- Multi-Unit nuisance faults de-bounced.

**V2.02.03 Build 0 (October 2013)**

**Changes/New Features**

- Fan Control updated

**V1.01.02 Build 0 (May 2013)**

Initial Release

**Changes/New Features**

- Release for Production Release