

### V3.12.00 Build 01 (June 2020)

#### Changes/New Features

- Improved CSW user switch management to prevent spurious detection of switch activation.

### 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.

### V3.09.00 Build 1 (May 2017)

#### Changes/New Features

- 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.
- Improve stability of parallel stacking.
- Fixed issue where both units would fault and prevent charging when one unit had a transformer over temp condition in stacked configurations. One unit will continue to charge.
- Improved AC RMS measurements.
- Improved system charge state synchronization. CSWs and MPPTs will exit absorption at the same time.

- XanBus network will be turned off when battery voltage falls below 10V to prevent network devices from continuing to drain the 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.

### **V3.04 Build 13 (June 2016)**

#### **Changes/New Features**

- Transformer Over Temperature Faults in Parallel stacking behavior changed to allow for master to continue charging if only slave has an over temperature fault.
- Power Saving Features implemented when batteries levels are very low.
- Range for bulk charge settings increased.

#### **Bug Fixes**

- AC Output Voltage Reading is more stable.
- Parallel stacking operation more stable.
- Fixed issues with AC Support.
- Fixed issue with Low Battery Cut Out during AC Support.
- Multi-Unit Configuration with MPPT Charge Controller Charge state synchronization improvements.
- Fixed problem with excessive inverter output voltage on a microwave load.

### **V3.03 Build 6 (Sept 2015)**

#### **Changes/New Features**

- New Calibration Default Values
  - Can only select External Battery Management System Charge Cycle with the Lithium Ion Battery type.
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- Changed Load Shave Amps minimum setting to 1A.
  - Adjusted the Transformer Over-Temperature Fault Levels.

- Enable LBCO in AC Support.

### **Bug Fixes**

- Fixed issue with Load Shave Delay
- Fixed issue where Low Battery Cut Out was not enabled in AC Coupling.

### **V3.01 Build 8 (Dec 2014)**

#### **Changes/New Features**

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

#### **Bug Fixes:**

- Multi-Unit nuisance faults de-bounced.

### **Version: 2.02.03 Build 0 (Nov 2013)**

#### **Changes/New Features**

- Updated Fan Control.

### **Version: 1.01.03 Build 0 (May 2013)**

### **Version: 1.01.02 Build 0 (May 2013)**

#### **Changes/New Features**

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- Initial Release for Production