



# Software Control Document

<b>Product Name:</b>		<b>Product Numbers:</b>		<b>Date:</b>
CSW 2524 120/240V		865-2524		February 16, 2018
<b>Schneider Part Number:</b>		<b>Part Description:</b>		
151-0271-03-11		FIRMWARE CSW 2524 INV CHARGER 120/240V		
<b>HISTORY</b>				
<b>Version &amp; Build</b>	<b>Rev:</b>	<b>ECO:</b>	<b>Description of Changes:</b>	
V03.05.00 BN0004	A	9546	See Change Log - Rev A	
V03.07.00 BN0003	A	9736	See Change Log - Rev A	
V03.08.00 BN0004	A	9899	See Change Log - Rev A	
V03.11.00 BN0010	A	30022	See Change Log - Rev A	
<b>SIGNATURES</b>				
<b>Approval</b>	<b>Name</b>	<b>Signature</b>		<b>Date</b>
Software Lead	Doris Liu	Email Approvals attached in zip package		
Technical Champion	Harry Xu	Email Approvals attached in zip package		
Software Test	Balwinder Sidhu	Email Approvals attached in zip package		

SOFTWARE SOURCE	
CM Plan Pathname:	.\DOC
PROJECT REPOSITORY	
Tool Repository Info: (tool, depot, stream)/ (tool, database, path)	Teamforge, Solar Controls, solar_controls_csw (CSW_2524-120-240)
Release Snapshot / Label:	SNAP_865-2524.03_11_00.BN0010
PROJECT	
Project Pathname:	.\Software\Code\FSW\Make\FSW.pjt
IDE Tool & Version:	Code Composer Studio Version 3.3.83.13 (Integrated Development 5.98.0.393)
Project Files or See Project File: <input type="checkbox"/>	FSW.pjt
Compiler Tool & Version:	Code Composer Studio Version 3.3.82.13(Code Generation Tools v5.1.6)
Compiler Options or See Project File: <input checked="" type="checkbox"/>	
Linker Tool & Version:	Code Composer Studio Version 3.3.82.13(Code Generation Tools v5.1.6)
Linker Options or See Project File: <input checked="" type="checkbox"/>	
Ouput File Pathname:	.\Software\Code\FSW\Bin\Release\FSW.hex
ENCRYPTION or N/A <input type="checkbox"/>	
Encryption Tool & Version:	SRecordToolc v1.0.2 BN0001
Tool Repository Info: (tool, depot, stream, snapshot)/ (tool, database, path, label)	Teamforge, Solar Controls, xcode_srec_tool
Options:	SRecordToolc.exe 24 <path .\Software\Code\FSW\Bin\Release\FSW.hex>
Output File Pathname:	.\Software\Code\FSW\Bin\Release\FSW.xf0
OUTPUT FILE CHECKSUM or N/A <input type="checkbox"/>	
Checksum Tool & Version:	Microsoft File Checksum Integrity Verifier (FCIV) Version 2.05
Tool Repository Info: (tool, depot, stream, path)	<a href="http://support.microsoft.com/kb/841290">http://support.microsoft.com/kb/841290</a>
Options:	MD5
Output File Used:	865-2524.03_11_00.BN0010.xf0
Checksum Value:	6ca9c94a6d6b0ccfdda9f33c034d8d8f

PROGRAMMING			
Target	Target Description		Xantrex Part Number
TMS320F2812	IC TMS320F2812PGF DSP-CONTROLLER 16-CHAN 128K-FLASH SM LQFP-176 -40+85C		032-1015-02
MANUFACTURING TOOLS or NA <input checked="" type="checkbox"/>			
Hardware Tool:			
Software Tool & Version:			
Tool Repository Info:			
MICROCHIP OPTIONS or NA <input checked="" type="checkbox"/>			
Checksums:	Secured:		
	Unsecured:		
Oscillator type:		Security:	
Watchdog:		Parity:	
Brown Out Detect (BOD):		Device ID:	
Processor Mode:		Memory Fill:	
Power Up Timer (PUT):			
PROGRAMMING INSTRUCTIONS			
Program using the pre-programmed boot loader and an appropriate XanBus programming tool, such as XDT.			
LABELING AND DELIVERY			
Label Format:	N/A		
Legend:	N/A		
Part Number	Version Number		
N/A	N/A		

CHANGE LOG	
Firmware Revision:	V03.11.00 BN0010
Release Date:	February 16, 2018
CHANGE LOG HISTORY	
JIRA ID: N/A	<ul style="list-style-type: none"> <li>- Ported XW+ timer to CSW to improve reliability and performance of timer functions.</li> <li>- Improved Load Shave startup to better manage inrush currents.</li> <li>- Improved operation of Triac short circuit relay when battery voltage drops below Low Battery Cut Out voltage.</li> <li>- Improved Triac relay operation when starting Dead Battery Charging which minimizes inrush currents.</li> <li>- Added support current derating for SellScalePercentage in GridTieCfg PGN to support Conext Bridge.</li> <li>- Changed battery discharge over current fault to manual fault, and the default time from 10 seconds to 8 seconds.</li> <li>- Added GTS command.</li> <li>- 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.</li> <li>- Fixed a bug so that CSW can stay in CC/CV mode and don't follow MPPT to BULK mode.</li> <li>- 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.</li> <li>- Changed to only write to EEPROM while in standby mode.</li> <li>- Fixed battery current surge in AC support which could trigger EEPROM error.</li> <li>- Fixed Peak Load Shaving transient problem at start up.</li> <li>- Fixed fault F72 AC association mismatch issue.</li> <li>- Fixed CSW tracks Generator Frequency down to 40Hz as Gen stops after Cool Down.</li> <li>- Fixed charging problems with Lithionics batteries.</li> <li>- Fixed Custom battery type charge Absorption voltage tied to Bulk voltage.</li> </ul>