



Software Release Notes

Part Number: SW90112
Description: OZGTI3000 Active Front End Controller Firmware
Release Number: 4.0
Release Date: 2/24/2012

New Features:

- Added support for 2nd inverter interface for dual interleaved inverter operation, including zero sequence PI controller to regulate AC current offset to zero
- Added power stage dead time compensation
- Added feature to ramp current command down to zero amps with a programmable slew rate when turning OFF in current control mode rather than turning off immediately
- Added auto gain control (AGC) to the line synchronization PLL input to remove the loop gain dependency on the magnitude of the line voltage
- Added programmable inverter hardware error pin polarity parameters (ERR and OVT inputs from SKiiP interface)

Bug Fixes:

- N/A

Compatibility Notes:

- The AFE Controller Users Manual (UM-0021) has been updated to Revision D to reflect the new features described above
- The OzCan AFE Device Profile Functional Specification (FS-0047) has been updated to Revision F to reflect the new status feedback pertaining to the second “Inverter B” interface
- If using Oztek’s PCC control GUI (SW90118), this version of the OZGTI3000 firmware must be used with PCC software Rev 1.8 or newer