

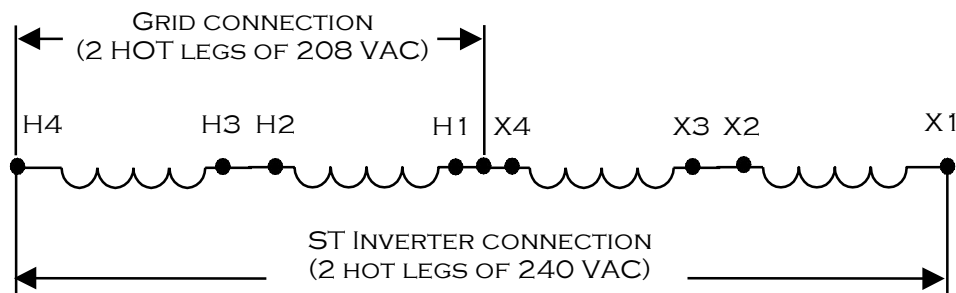
## Sun Tie Inverter - 208 VAC Hookup

The Sun Tie (ST) inverter is designed primarily for residential sell-back applications that generally utilize 240 VAC, 60Hz, two wire output. For commercial or industrial applications, where only 208 VAC three-phase power is available, the ST inverter can be installed with the appropriate use of a “buck-boost” transformer.

Buck-boost transformers are small, single-phase devices designed to reduce (buck) or raise (boost) line voltage from 5-20%. The most common example is boosting 208 VAC to 240 VAC; usually to operate a 240 VAC motor, such as an air-conditioner compressor, from a 208 VAC supply line.

In the particular case of the ST inverter application, the buck-boost transformer is installed between 2 hot legs of 208 VAC grid power and the ST inverter. This allows the ST inverter to continue at 240 VAC and the grid to continue at 208 VAC.

The following schematic outlines the electrical hookup necessary to achieve the desired interconnection:



The recommended transformer for this type of application can be obtained from:

ACME Electric  
4815 West 5th St.  
Lumberton, NC 28358  
(910) 738-1121  
Fax: (910) 739-0024  
[www.acmepowerdist.com](http://www.acmepowerdist.com)  
Technical services 1-800-334-5214

Transformer Type:  
Acme Buck-Boost P/N: T-1-13073  
Rated for 7.5 kVA as shown (evaluated at Xantrex)  
or  
Acme Buck-Boost P/N: T-1-81058  
Rated for 3.75 kVA as shown (not evaluated at Xantrex)

NOTE: This installation diagram is provided to assist your certified electrician. Since the use of this diagram and the conditions or methods of installation, operation, use and maintenance of the unit are beyond the control of Xantrex Technologies Inc., Xantrex does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or any way connected with such installation, operation, use, or maintenance.