Smart choice for power

xantrex



Globe 2006 – Solar Residential Grid Tie Xantrex Technology Inc. Chris Thompson, VP Engineering and Product Development March 30, 2005



Xantrex Overview

Offices	Burnaby BC, Arlington WA, Livermore CA, Elkhart IN, Barcelona Spain, Reading England
Manufacturing	Burnaby BC, Arlington WA, Dominican Republic, China (4 Outsourced Locations)
Employees	500
Revenue	US\$143 Million in 2005
Patents	79 patents with 97 more in progress
Ownership	Public, Traded on Toronto Stock Exchange (XTX)
Established	1983

Xantrex Target Markets



Renewable Power Leadership

• Solar, wind, and backup product provider for the global market



Renewable Power Product Portfolio



Int'l 3 Phase Commercial Grid Tie

GT500E Int'l 3 Phase Commercial Grid Tie

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Wind



1.5 MW Converter Industrial Wind



10 kW Grid Tie Inverter Small Scale Wind



Backup



SW Power panel Off-Grid Backup Power Inverter Charger



SW Plus Off-Grid Backup Power **Inverter Charger**



DR Inverter/Charger

Recent Product Launch

Design Objectives:

- High efficiency
- Variety of power offerings from one platform
- Designed for multi unit installations
- Ease of installation
- Ease of use
- Easy to maintain
- Reliable
- Attractive



GT 2.5kW

GT 3.3kW

GT 3.8kW

Xantrex GT Series Solar Grid Tie Inverter

- Wide MPPT range 195-550 VDC with high efficiency
- Faster and less expensive to install
 - Light weight and compact
 - Installation mounting bracket
 - DC/AC disconnect
 - Wiring box
 - Split chassis design (easy to service)
- Communications:
 - LCD display
 - communication ports and software
- Attractive Industrial Design
 - Sleek and compact form factor



Market Results

- Over 14 MW GT Series units shipped worldwide since October 2004, with 10 MW in US market
- GT California market share: 20% in one year
- Xantrex USA residential market share: 24% in one year





Installation Examples



Horizon Energy Systems

- Campbell, CA
- 9 Sharp 185
- 1.7 kW

Carlson Solar

- Hemet, CA
- 40 Sharp 170's
- 7 kW

Clean Looking, Easy to Install Multi Unit Systems

- Reduces visible conduit and industrial switch gear
- Superior aesthetics
- Identical form factor for all inverters



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Installation Examples





Garden State Energy Services Owens Electric & Solar

- Stockton, NJ
- 54 Sanyo 190's
- 10 kW

- Sebastopol, CA
- 90 Sharp 175
- 16 kW

Installations



- Carlson Solar
- San Marcos, CA
- 91 GT 3.0's

Installation Examples



Solon Mover - Berlin, Germany

 Solon dual axis 10kW solar power system with Xantrex GT series inverters

Installation Examples



Electrofret – Madrid, Spain

- 18 Xantrex GT 3.0E
- 252 Sanyo 190 Watt modules

Installation Examples



Korean Electric Power (KEPCO) - Korea

 Xantrex GT 3.0 installed on residential home on the south coast of Korea

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Design Topology

- Robust EMI filtering on input and output
- Sealed Design
 - Keeps outside air and contaminants off components
 - Maximizes reliability
- Surface mount components used wherever possible
 - Machine placed, reducing human error, results in better repeatability and reliability
 - Thru-hole components used where high current, high power capacity is required
 - Every component on PCB's in-circuit tested before being installed and powered up
- Passive cooling
 - Prevents MTBF reduction due to fan failure
 - Keeps audible noise at a minimum

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Industry Leading Ease of Installation

PV/Utility Disconnect

- Complies with NEC
- No external DC disconnect needed



Split Chassis Design

- Inverter separable from wiring box
- Field service friendly



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