



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1953191 (LR 86581)

Master Contract: 159409

Project: 1953191

Date Issued: 2008/02/28

Issued to: Xantrex Technology Inc.

8999 Nelson Way
Burnaby, BC V5A 4B5
Canada
Attention: Mr. Jim Eichner

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by: Rob Hempstock, ASCT.

Authorized by: Lindsay Clark, Product Group Manager

PRODUCTS

- CLASS 5311 09** - POWER SUPPLIES - Distributed Generation Power Systems Equipment
- CLASS 5311 89** - POWER SUPPLIES - Distributed Generation - Power Systems Equipment
- Certified to U.S. Standards

Inverter/Charger Trace Series, Models TR1512-120-60, TR2412-120-60, TR1524-120-60, TR2424-120-60, and TR3624-120-60, permanently connected, rated as follows:

MODEL TR1512-120-60

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



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CHARGER/BYPASS MODE:

AC Input (V, A, Hz): 120 V ac, 40A, 60 Hz

AC Output (V, A, Hz, VA): 120 V ac, 30 A, 60 Hz, 3600VA

DC Charger Output Voltage Range (V): 11 V dc to 14.6 V dc

Nominal DC Charger Output (V, A): 12.6 V dc, 70A Max

INVERTER MODE:

Max DC Input Voltage (V): 15.5 V dc

Nominal DC Input (V, A): 12.6 V dc, 157A Max

Maximum AC Output (V, A, Hz, VA): 120 V ac, 12.5A, 60Hz, 1500VA (Modified Sine Wave)

Maximum AC Output Fault Current (A): 132 Apk, 12 secs

Maximum Branch Circuit AC Output Overcurrent Protection (A): 30A

Output Power Factor: 0.8 to 1

Normal Temperature Range Full Power (C): 40°C charge, 50°C invert

Maximum Temperature Range Derated (C): 50°C

MODEL TR2412-120-60

CHARGER/BYPASS MODE:

AC Input (V, A, Hz): 120 V ac, 48A, 60 Hz

AC Output (V, A, Hz, VA): 120 V ac, 30A, 60 Hz, 3600VA

DC Charger Output Voltage Range (V): 11 V dc - 14.6 V dc

Nominal DC Charger Output (V, A): 12.6 V dc, 100A Max

INVERTER MODE:

Max DC Input Voltage (V): 15.5 V dc

Nominal DC Input (V, A): 12.6 V dc, 252A Max



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Maximum AC Output (V, A, Hz, VA): 120 V ac, 20A, 60Hz, 2400VA (Modified Sine Wave)

Maximum AC Output Fault Current (A): 132 Apk, 12 secs

Maximum Branch Circuit AC Output Overcurrent Protection (A): 30A

Output Power Factor: 0.8 to 1

Normal Temperature Range Full Power (C): 40°C charge, 50°C invert

Maximum Temperature Range Derated (C): 50°C

MODEL TR1524-120-60

CHARGER/BYPASS MODE:

AC Input (V, A, Hz): 120 V ac, 40A, 60 Hz

AC Output (V, A, Hz, VA): 120 V ac, 30 A, 60 Hz, 1500VA

DC Charger Output Voltage Range (V): 22 V dc to 29.2 V dc

Nominal DC Charger Output (V, A): 25.2 V dc, 35A Max

INVERTER MODE:

Max DC Input Voltage (V): 31 V dc

Nominal DC Input (V, A): 25.2 V dc, 76A Max

Maximum AC Output (V, A, Hz, VA): 120 V ac, 12.5A, 60Hz, 1500VA (Modified Sine Wave)

Maximum AC Output Fault Current (A): 132 Apk, 12 secs

Maximum Branch Circuit AC Output Overcurrent Protection (A): 30A

Output Power Factor: 0.8 to 1

Normal Temperature Range Full Power (C): 40°C charge, 50°C invert

Maximum Temperature Range Derated (C): 50°C

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CHARGER/BYPASS MODE:

AC Input (V, A, Hz): 120 V ac, 48A, 60 Hz

AC Output (V, A, Hz, VA): 120 V ac, 30A, 60 Hz, 3600VA

DC Charger Output Voltage Range (V): 22 V dc to 25.2 V dc

Nominal DC Charger Output (V, A): 25.2 V dc, 70A Max

INVERTER MODE:

Max DC Input Voltage (V): 31 V dc

Nominal DC Input (V, A): 25.2 V dc, 120A Max

Maximum AC Output (V, A, Hz, VA): 120 V ac, 20A, 60Hz, 2400VA (Modified Sine Wave)

Maximum AC Output Fault Current (A): 132 Apk, 12 secs

Maximum Branch Circuit AC Output Overcurrent Protection (A): 30A

Output Power Factor: 0.8 to 1

Normal Temperature Range Full Power (C): 40°C charge, 50°C invert

Maximum Temperature Range Derated (C): 50°C

MODEL TR3624-120-60

CHARGER/BYPASS MODE:

AC Input (V, A, Hz): 120 V ac, 48A, 60 Hz

AC Output (V, A, Hz, VA): 120 V ac, 30A, 60 Hz, 3600VA

DC Charger Output Voltage Range (V): 22 V dc to 29.2 V dc

Nominal DC Charger Output (V, A): 25.2 V dc, 70A Max

INVERTER MODE:

Max DC Input Voltage (V): 31 V dc

Nominal DC Input (V, A): 25.2 V dc, 186A Max



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AC Output (V, A, Hz, VA): 120 V ac, 30A, 60Hz, 3600VA (Modified Sine Wave)

Maximum AC Output Fault Current (A): 132 Apk, 12 secs

Maximum Branch Circuit AC Output Overcurrent Protection (A): 45A

Output Power Factor: 0.8 to 1

Normal Temperature Range Full Power (C): 40°C charge, 50°C invert

Maximum Temperature Range Derated (C): 50°C

Notes:

1. Models TR1512-120-60, TR2412-120-60, TR1524-120-60, TR2424-120-60, and TR3624-120-60 are inverters with built in battery charger systems designed to use power stored in sealed lead acid batteries to power AC loads and to recharge those batteries when an AC source is available. External solar arrays, wind generators, or other renewable energy sources can also be used to recharge the batteries. When these are provided, they must use charge controllers that are self-regulated, permanently installed and Canadian Electrical Code and NEC compliant.
2. The above models have been evaluated in a maximum ambient of 40°C at full power and in a maximum ambient of 50°C at derated power in charge modes and in a maximum ambient of 50°C at full power in invert modes.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91 - General Requirements - Canadian Electrical Code - Part II

No. 0.4-04 - Bonding of Electrical Equipment

No. 107.1-01 - General Use Power Supplies

UL Std No. 1741 (First Edition)- Inverters, Converters, Controllers and Interconnection System Equipment For Use With Distributed Energy Resources (Including revisions through and including November 7, 2005)