Declaration of Conformity
for FXR Series Inverter/Chargers

Purpose

The intent of this document is to specify that the OutBack models listed in the Scope below conform to the following standards for grid-interactive inverter/chargers.

This document supersedes any previous declarations for these OutBack models.

Scope

OutBack models covered by this Declaration of Conformity include the following.

- FXR2012E
- FXR2024E
- FXR2348E
- VFXR2612E
- VFXR3024E
- VFXR3048E

IMPORTANT:

This Declaration of Conformity covers only the models listed above. This Declaration does not cover any other models.

Directives

- RoHS: Directive 2011/65/EU — "The restriction of the use of certain substances in electrical and electronic equipment"
- LVD: 2006/95/EC — "Electrical equipment designed for use within certain voltage limits"
- EMC: 2004/10B/EC — Electromagnetic Compatibility

Certifications

This product is certified by ETL to the following standards:

- IEC 62109-1:2010 and IEC 62109-2:2011 — Safety of Power Converters for use in Photovoltaic Systems (2010)

Models FXR2024E, VFXR3024E, FXR2348E, and VFXR3048E are certified to the following standards:

- AS4777.2:2015 — Grid Connection of Energy Systems via Inverters

Compliance

- EN 61000-6-1 — EMC Standard: Immunity for Residential, Commercial, and Light-Industrial Environments
- EN 61000-6-3 — EMC Standard: Emissions for Residential, Commercial, and Light-Industrial Environments
- EN 61000-3-3 — EMC Standard: Limitation of Voltage Changes, Voltage Fluctuations, and Flicker in Public Low-Voltage Supply Systems
- ABNT 16149:2013 — Sistemas fotovoltaicos (FV)

Specification Conformity

Models FXR2024E, VFXR3024E, FXR2348E, and VFXR3048E are declared to conform to the following:

- These inverter/charger models conform to AS4777.2 for single-inverter installations only.
- These inverter/charger models have grid-interactive functions. They are tested to certain limits for acceptable output voltage ranges, acceptable output frequency, total harmonic distortion

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(THD) and anti-islanding performance when the inverter exports power to a utility source. The inverter/charger models listed here are validated through compliance testing.

The following specifications refer to exporting power to a simulated utility source of less than 1% voltage total harmonic distortion (THD).

~ The THD of the root mean square (RMS) current is less than 5%.

~ The output of the FXR inverter exceeds the minimum power factor of 0.85 with a typical power factor of 0.96 or better.

The reconnection delay has a default setting of 1 minute. The settings for the reconnection delay and ***Grid Interface Protection*** are adjustable, but this is only available to operators with installer-level access. The reason for the limitation is that there are firm rules concerning acceptable voltage range, frequency range, clearance time during power loss, and reconnect delay when exporting power to the utility. The rules differ in different locations around the world, although generally it is expected that the settings cannot be altered by the end user. For this reason, the installer password must be changed from the default in order to get access to these settings. Once the password has been changed, the ***Grid Interface Protection*** settings can be accessed by using the installer password.

For programming navigation, see the MATE3 or MATE3s literature. For a full list of ***Grid Interface Protection*** default settings and available ranges, see the FXR series literature.

I hereby certify that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. These products are compliant with all applicable requirements.

Steve Karaffa
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