

Declaration of Conformity for International Grid-Interactive Inverter/Chargers

Purpose

This document declares that the OutBack inverter/charger models listed in the Scope below comply and conform to the following requirements and standards for 230 Vac/50 Hz grid-interactive inverter/chargers.

This document supersedes any previous declarations for these OutBack models.

Scope

OutBack grid-interactive inverter/charger models covered by this Declaration of Conformity include the following.

- | | | |
|-------------|-------------|------------|
| ➤ GTFX2012E | ➤ GVFX2612E | ➤ GFX1312E |
| ➤ GTFX2024E | ➤ GVFX3024E | ➤ GFX1424E |
| ➤ GTFX2348E | ➤ GVFX3048E | ➤ GFX1448E |



IMPORTANT:

Models intended for use in power applications other than 230 Vac, 50 Hz, or three-phase 230/400 Vac, 50 Hz, are not covered by this Declaration of Conformity.

CE Compliance

The OutBack inverter/charger models listed in this document are CE compliant for off-grid applications. These products comply with the following European Union directives:

- EU Declaration of Conformity Regarding Electromagnetic Compatibility 2004/108/EC (European Parliament and Council Directive of 15 December 2004)
- Electrical Equipment Designed for Use within Certain Voltage Limits (European Parliament and Council Directive of 12 December 2006)

The OutBack models listed in this document are confirmed to comply with the European Directive for Emissions Immunity Safety: Standards EN 61000-6-3, EN 61000-6-1, EN 61000-3-2, and EN 61000-3-3.

For each model listed in this document, the AC Input connection is only approved for connection to an AC generator.

The models listed are not CE compliant for on-grid or grid-interactive applications.

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for International Grid-interactive Inverter/Chargers

Specification Compliance

For installations that are not bound by CE:

These inverter/charger models have grid-interactive functions. All models are tested to certain limits for acceptable output voltage ranges, acceptable output frequency, total harmonic distortion (THD) and anti-islanding performance when the inverter exports power to a utility source.

The OutBack inverter/charger models listed in this document 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 GTFX and GVFX inverter exceeds the minimum power factor of 0.85 with a typical power factor of 0.96 or better.
- All International Series GTFX and GVFX inverter/chargers are tested to comply with Table 1.

Table 1 Anti-Islanding Parameters

Voltage Range (AC Volts)	Frequency (Hz)	Clearing Time (Seconds)	Measured Time (Seconds)
$V < 115$	50	0.16	0.02
$115 \leq V < 202.4$	50	2.00	0.155
202.4 to 253	50	No cessation	No cessation
$253 < V < 276$	50	1.00	0.157
$V \geq 276$	50	0.16	Instantaneous, but 0.137 seconds to zero current
230 IEEE setting	> 51	0.16	0.098
230 IEEE setting	< 49	0.16	0.102
230 User setting	> 52	1.00	0.605
230 User setting	< 48	1.00	0.656

Settable acceptance ranges are 115 to 276 Vac, 49 to 51 Hz (IEEE selection), and 48 to 52 Hz (User selection).

The reconnection delay is 12 seconds after restoration of acceptable conditions. The sell delay is 1 minute. These settings are not adjustable.

All associated technical files are located in the Engineering Department at OutBack Power Technologies, Arlington, WA, USA. For a full list of product specifications, please see the International Series GTFX and GVFX manual set and the International Series GFX manual set.

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