



## MODEL SB-2K-L

### Technical features

*Model with power control from 10% to 100% on the front panel indicated with multicolor LED bar*

AVAILABLE POWERS: from 1000Wp to 2000Wp, with automatic power tracking, and optimum working point tracking, with three tracking modes, anti-stationary wave and anti-wave system in the tank.

POWER INPUT VOLTAGE: 230V/50Hz.

AC POWER CONSUMPTION: Up to 1000Wrms.

PEAK POWER CONSUMPTION: Up to 2000Wp.

AVAILABLE FREQUENCIES: 28KHz / 40KHz / 40-90KHz (With sweep system up to +/-1.5KHz).

AUTOMATIC FREQUENCY FOLLOWING: With 3 selectable modes.

FREQUENCY SWEEP WITH WIDTH CONFIGURATION: With 10 adjustable ranges, up to 3KHz with 300Hz steps.

FREQUENCY SWEEP WITH SPEED CONFIGURATION: With 10 selectable sweep speeds, from 1Hz to 18Hz.

BURST SYSTEM WITH INTENSITY CONFIGURATION: With configurable overshoot from 0% to 100%.

BURST SYSTEM WITH SPEED CONFIGURATION: With 6 configurable modes from 10ms to 60ms.

DEGAS SYSTEM: Degassing system with 3 configurable modes (short, medium and long time).

ANTI TRAVELING WAVE SYSTEM: Minimizes traveling waves in the tank.

STATIONARY WAVE SYSTEM: Minimizes the formation of standing waves in the tank.

OVER TEMPERATURE PROTECTION: The system controls the power temperature and gives an alarm if it is exceeded.

OVER CURRENT PROTECTION: The System monitors the current input and output and alarms if overcurrent occurs.

OVERVOLTAGE AND UNDERVOLTAGE PROTECTION: The system checks all system voltages and alarms if any of them fail.

EXTERNAL CONTROL WITH PLC: (Start/Stop, Sweep and Burst) with potential free contacts on the rear connector.

EXTERNAL CONTROL AND INTERNAL CONFIGURATION WITH PLC: Intuitive communication protocol over RS-485, no special software required, or also with modbus protocol over RS-485.

ALARM INDICATION: The system indicates on the rear connector if there is any alarm.

SIMPLE HMI (HUMAN-MACHINE INTERFACE): Simple operation for the configuration of the ultrasonic generator.

EASY OPERATION WITH MULTIFUNCTION PUSH BUTTON: Switching between basic modes with a single button.

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WARRANTY AND PRODUCT QUALITY: All equipments supplied by TierraTech®, are supplied with an instruction manual in English according to the European legislation on CE marking. The equipments comply the directives on electromagnetic compatibility and electrical safety: Directive 2004/108/EC and Directive 2006/95/EC The equipments have 2 years warranty against manufacturing defects.