



## MODEL SB-4K-D

# GENERATORS

### Technical features

*Model with 3.5" TFT color display with access to power switching and basic settings*

**AVAILABLE POWERS:** From 2000Wp to 4000Wp, 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 2000Wrms.

**PEAK POWER CONSUMPTION:** Up to 4000Wp.

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

**AUTOMATIC FREQUENCY FOLLOWING:** With 3 selectable modes.

**FREQUENCY FIXING 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 vat.

**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.

[tierratech@tierratech.com](mailto:tierratech@tierratech.com)



[tierratech.com](http://tierratech.com)

Parque empresarial Morero Nave 26,27 39611 Guarnizo, Cantabria, España Tel.(+34) 942 269 543

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.