# Ultrasonic Welding Generator USG - SD

## Generator Specification for Model USG – SD

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection Voltage</th>
<th>Power Consumption</th>
<th>Ultrasonic Frequency</th>
<th>Output Power</th>
<th>Overall Size W x H x D</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>USG 440 SD</td>
<td>230 Volt 50/60 Hz</td>
<td>440 VA</td>
<td>40 kHz</td>
<td>400 Watt</td>
<td>250 x 80 x 171</td>
<td>2.9kg</td>
</tr>
<tr>
<td>USG 840 SD</td>
<td>230 Volt 50/60 Hz</td>
<td>880 VA</td>
<td>40 kHz</td>
<td>800 Watt</td>
<td>250 x 111 x 171</td>
<td>5.6kg</td>
</tr>
<tr>
<td>USG 835 SD</td>
<td>230 Volt 50/60 Hz</td>
<td>880 VA</td>
<td>35 kHz</td>
<td>800 Watt</td>
<td>250 x 111 x 171</td>
<td>5.6kg</td>
</tr>
<tr>
<td>USG 1030 SD</td>
<td>230 Volt 50/60 Hz</td>
<td>1100 VA</td>
<td>30 kHz</td>
<td>1000 Watt</td>
<td>250 x 111 x 171</td>
<td>5.6kg</td>
</tr>
<tr>
<td>USG 1020 SD</td>
<td>230 Volt 50/60 Hz</td>
<td>1100 VA</td>
<td>20 kHz</td>
<td>1000 Watt</td>
<td>250 x 111 x 171</td>
<td>5.6kg</td>
</tr>
<tr>
<td>USG 1520 SD</td>
<td>230 Volt 50/60 Hz</td>
<td>1650 VA</td>
<td>20 kHz</td>
<td>1500 Watt</td>
<td>250 x 111 x 171</td>
<td>5.6kg</td>
</tr>
<tr>
<td>USG 2020 SD</td>
<td>230 Volt 50/60 Hz</td>
<td>2200 VA</td>
<td>20 kHz</td>
<td>2000 Watt</td>
<td>250 x 111 x 171</td>
<td>5.6kg</td>
</tr>
<tr>
<td>USG 3020 SD</td>
<td>230 Volt 50/60 Hz</td>
<td>3300 VA</td>
<td>20 kHz</td>
<td>3000 Watt</td>
<td>235 x 223 x 410</td>
<td>10kg</td>
</tr>
</tbody>
</table>
**SONIC-digital -the innovation**

The new series of SONIC-digital generators developed by Xfurth combine our total experience and all our technical know-how in a completely new concept. Digital frequency generation, the possibility to separate the generator from the front panel and the completely new cooling system, they all add up to a technical breakthrough in ultrasonics. The costly protective systems of the SONIC-digital generators achieve a high degree of operational safety and at the same time safeguards the connected transducers.

**XFURTH ULTRASONIC GENERATOR MODEL USG – SD**

- without load possible
- Short circuit protected
- Over temperature protection
- LCD multifunction display
- Environment temperature 5° - 40°
- Standard control interface

**Operating and display elements on the front panel**

- LED - HF: Lights up when the generator supplies HP voltage.
- LED - <>Nominal: Displays "Out of window" when time-out circuit or power monitor is set.
- LED - Mode: Displays selected special functions, such as timer function
- LED - Error: Lights up in the event of an error.
- LED - Power bar Graph (10 -100%): Displays the output power supplied in increments of 10%.
- Menu button: For setting and entering values.
- Test button: This button manually operates the ultrasonics

**The LCD comprises various displays and functions**

- Power display in "Watt": Indicates the power output currently being supplied.
- Working frequency display: Indicates the current working frequency of the generator.
- Amplitude setting: Sets the desired output amplitude between 50 and 100% of the nominal generator amplitude.
- Timer welding function: For welding in time.
- Energy welding function: For welding in energy.
- Frequency: Adjusts the operating frequency.
- Time monitoring function: Used for setting upper and lower limits.
- Power monitoring function: Used for setting upper and lower limits.
- Contrast setting: Adjust the contrast on the LCD.
- LED background lighting: Switches background light on and off.