

Technical comparison UUG-500 versa it's predecessor UUG-050-X



UUG-050-X	UUG-500	Differences	
100323	100523		<i>Part No</i>
discontinued	actual (released 09/2024)		<i>Status</i>
			Specification
Ultrasonic power is optimized for high power ultrasonic applications (heavy ribbon and high pin count die bonding) max. output voltage 100 V _{rms} minimum impedance: 35 Ohms	Ultrasonic power is optimized for high power ultrasonic applications (heavy ribbon and high pin count die bonding) max. output voltage 100 V _{rms} minimum impedance: 35 Ohms	NO	<i>Ultrasonic output power</i>
40 kHz to 150 kHz	30 kHz to 150 kHz	YES	<i>frequency range</i>
Full metal housing height: 142 mm / 5.6 inch (including rubber feet) width: 340 mm / 13.4 inch depth with handles: 346 mm / 13.62 inch (depth without handles: 305 mm / 12.01 inch) weight: approx. 6.9 kg / 15lb 3.4oz	Full metal housing height: 91 mm / 3.58 inch (with rubber feet) width: 399 mm / 15.71 inch depth: 221 mm / 8.7 inch weight: approx. 4.6 kg / 10.14 pounds	YES	<i>Housing</i>
Integrated AC power supply wide range 85..230 VAC 50/60Hz	Integrated wide range AC power supply operational range: 85..264 VAC 50/60 Hz rated range: 100..240 VAC 50/60 Hz (max. 250 VA power consumption)	YES	<i>Power supply</i>
DSUB25m	DSUB25m	NO	<i>Transducer connector</i>
LEDs: ready, bond, search, tuned and error test button for ultrasonic (front panel) reset button (front panel) On/Off switch (rear panel) Fuse (rear panel) <i>Open communication protocol for setup of the UUG-050-X and status/diagnosis</i>	LEDs: ready, bond, scan and error test button for ultrasonic (front panel) reset button (front panel) On/Off switch (rear panel) Fuse (rear panel) <i>Open communication protocol for setup of the UUG-500 and status/diagnosis</i>	YES	<i>User interface</i>

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Ultrasonic power input			
Digital power input 8 bit parallel low active	Digital power input 8 bit parallel low active	NO	<i>Power input selection</i>
Flat ribbon cable connector (rear panel)	Flat ribbon cable connector (rear panel)	NO	
Bond time control			
Automatic bond signal creation from 8 bit parallel power input	Automatic bond signal creation from 8 bit parallel power input	NO	<i>Automatic trigger</i>
Flat ribbon cable connector	Flat ribbon cable connector	NO	<i>Bond power connector</i>
Serial Interface			
USB	USB	NO	<i>Type</i>
DSUB9m (rear panel)	Type B (front panel)	YES	<i>Connector</i>
Options			
PC host software for setup and diagnosis	PC host software for setup and diagnosis	NO	
Data output during bond process or internal data sampling during bond process and output after finishing bond process	Data output during bond process or internal data sampling during bond process and output after finishing bond process	NO	

Remarks:

- The **UUG-500** is designed as a functional replacement – same functionality, but different housing – for the obsolete **UUG-050-X** generator.
- In addition the **UUG-500** comes with a new designed power input system with even a wider range.
- It uses a modern MCU for all the digital control loops and has therefore an improved control loop behavior.
- The output stage is now protected against over-current and over-heating.