Technical comparison UUG-040 and UUG-140

UUG-040	UUG-140	Differences	
100142	100487		*Part No*
Discontinued	Actual (in production since 12/2022)		*Status*
			Specification
Ultrasonic power is optimized for ultrasonic flip-chip die bond applications; maximum power depends on impedance of the ultrasonic transducer; max. output voltage 39 V_{rms} (typ. 40 Watts at 38 Ohms transducer impedance)	Ultrasonic power is optimized for ultrasonic flip-chip die bond applications; maximum power depends on impedance of the ultrasonic transducer; max. output voltage 39 V_{rms} (typ. 40 Watts at 38 Ohms transducer impedance)	**NO**	*Ultrasonic output power*
30 kHz to 150 kHz	30 kHz to 150 kHz	**NO**	*frequency range*
Full metal housing height: approx. 75 mm / 3 inch (with rubber feet) width: 253 mm / 9.96 inch depth: 250 mm / 9.84 inch weight: approx. 6.7 kg / 14.8 pounds	Full metal housing height: approx. 75 mm / 3 inch (with rubber feet) width: 253 mm / 9.96 inch depth: 250 mm / 9.84 inch weight: approx. 4.2 kg / 9.24 pounds	**YES**	*Housing*
Integrated AC power supply configurable 115 / 230 VAC, 50/60 Hz max. 250 VA power consumption	Integrated AC power supply wide range 110..240 VAC, 50/60 Hz max. 250 VA power consumption	**YES**	*Power supply*
DSUB25m	DSUB25m	**NO**	*Transducer connector*
LEDs: all voltages + ready, bond, scan and error test button for ultrasonic (front panel) reset button (front panel) On/Off switch (rear panel) Fuse (rear panel) *Open communication protocol for setup of the UUG-040 and status/diagnosis*	**LED**s: ready, bond, scan and error test button for ultrasonic (front panel) reset button (front panel) On/Off switch (rear panel) Fuse (rear panel) *Open communication protocol for setup of the UUG-140 and status/diagnosis*	**YES**	*User interface*

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UUG-040	UUG-140	Differences	
			Ultrasonic power input
Digital power input 8 bit parallel low active	Digital power input 8 bit parallel low active	**NO**	*Power input selection*
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**	*Automatic trigger*
Flat ribbon cable connector	Flat ribbon cable connector	**NO**	*Bond power connector*
			Serial Interface
RS232	USB	**YES**	*Type*
DSUB9m (rear panel)	Type B (rear panel)	**YES**	*Connector*
			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-140** is designed as a form-fit-function replacement – same housing, same functionality, but USB instead of RS-232 communication interface – for the obsolete UUG-040 generator model.
- In addition the **UUG-140** comes with a wide-power-input, so no need any longer to set to correct power rating.
- It uses a modern MCU for all the digital control loops and an improved output stage.