



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2013_BJAST_6717
Title of the Manuscript:	Intelligent Ultrasonic Power Supply based on HPWM
Type of the Article	Research Paper

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	1. What do the SPWM stand for in Introduction part? You should give us a full name for it. 2. What is the mean for m,-m,c in Figure3? What effect do these rectangular waves have? 3. From the figure7 we can see the frequency of rectangular wave is 200KHz, but the paper describe the resonant frequency is 20KHz. Why?	1.SPWM means Sinusoidal Pulse Width Modulation. I have made an explanation in my manuscript. Thank you for your question. 2.As the article proposed, m,-m, c represent Modulation wave, Carrier wave respectively.-m has a phase difference of 180 with m, which stands for Modulation wave. These rectangular waves in Figure3 are used to control the On and Off of MOSFET. Thank you for your question. 3. As the article proposed, the frequency of rectangular wave is High-frequency driving waveform of MOSFET, while the resonant frequency is the output frequency of Ultrasonic power supply. Thank you for your question.
Minor REVISION comments	1. It would be more descriptive to review the paper by a professor of English. 2. Is the Ultrasonic a suitable key word for this paper?	1.Indeed, the description of professional English will make the article more professional. Thank you! 2.Actually, Application background of this article is that the field of biological treatment with Ultrasound, while the article is how to generate the Ultrasonic and discuss the control process. Thank you!
Optional/General comments	How about the effects of the Intelligent Ultrasonic Power Supply in practical applications? It will be better to add a confirmation test through a machine process.	1.Application background of this article is that the field of biological treatment with Ultrasound. In the laboratory, we use ultrasonic extraction from Corn samples, extracted fluid of biological treatment. Thank you!