

Enagic Leveluk Series Power Supply

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There has recently been confusion regarding the power supply of the Leveluk series of water ionizers by Enagic, and I will admit that I was one of those that was confused by what I was hearing. Since I started in this business over 6 years ago, I was always told that the Enagic ionizers use transformers for their power supply. Transformers supply a steady flow of power, which is necessary to run an ionizer for long periods of time, which is exactly what our machines can do, so there was never really any reason for me to doubt it or look into it too deeply. I was more focused on the low quality SMPS power supplies used by most of the other machines and things like the plate construction and surface area. Because of the results we get from our machines the power supply never really seemed like an issue to me.

Then, a few months ago, I started hearing that the Leveluk machines actually used SMPS as their power supply. Knowing how inefficient the SMPS power supplies were for the other ionizers in the market, and me personally testing lots of machines using SMPS, this didn't make sense. Our machines were too robust and powerful, so I thought there must have been a mistake. But, I wanted to make sure, so I inquired about this with corporate staff, which sent the info to the factory in Japan and last week an official answer was released by Enagic engineers.

Again, we are here to set the record straight, so here it is. Yes, what you might have heard IS correct, the Leveluk series of machines DO use SMPS as part of the power supply. Okay, that being said, let me explain what it is we actually have so you won't be confused by this new information.

The Leveluk series machines utilize a unique type of power supply in order to accomplish the extreme range of power outputs required of the machines.

In order to continuously generate Kangen Water, Strong Kangen Water and Strong Acidic Water, the highest quality Japanese circuits and engineering was needed. The result was a unique "hybrid" power configuration. The power supply utilizes a high quality SMPS, used to stabilize the electrical current, regardless of input fluctuation, while providing precision power output control, and a metal oxide semiconductor field-effect transistor, MOSFET, which is used for amplifying or switching electronic signals. This combination increases efficiency, maximizes power output, reduces product weight and reduces the heat that a traditional transformer would create.

One of the reasons SMPS is used in electronics is to stabilize current in areas where there is power fluctuation. This does not happen very much in the U.S., as we have a pretty stable power grid, but the rest of the world can't say the same thing. We have to remember that the SD501, and the other Enagic machines are global products, and not just for this market, so it started to make sense to me that the machine may need this stabilizing technology.

Once the electricity has passed through the SMPS and MOSFET, it is sent to a small transformer, where it is converted to a linear type of power; creating an even, consistent flow of electricity. This stable flow of power ionizes the water, regardless of duration or the power necessary to create the selected water. The best way to explain our power supply is as a hybrid, it's an SMPS with a Post Switch Transformer.

Another aspect of our design of the power supply is the sheer size of the heat sink, which helps cool the ionizer by absorbing and dissipating heat. It is the size of the entire power supply, and when it comes to heat sinks, size really does matter. The more surface area, to dissipate the heat generated, by continuously ionizing water, the better performance of your ionizer. It keeps the ionizer from overheating, which is a major problem for many of the other machines in the market.

So why not in the SUN US or Leveluk R?

Those units are not required to produce the huge range of power as the other units that make the Strong Acidic Water, so the greater capabilities of the hybrid power supply were simply not needed.

In regards as to why this was not clarified earlier on?

The power supply confusion of the Leveluk Series seems to date back to 2005, when the series was introduced. It was the result of the translation of the technical information being slightly off. The final power is, in essence, linear, which is typically associated with a transformer, and is how it was translated. Since the machines performed as if they were using transformers no one questioned the translation error, why would they?

So out of all this confusion, we actually end up with a GREAT new selling point for our Leveluk machines. If asked about the power supply, we can proudly tell our prospects that our machines use a hybrid of the highest quality components available, utilizing the two most recognized power supplies in the business, SMPS and transformers. And what does this really mean? That they get the best of both worlds and an ionizer that is designed to produce the highest quality water in the industry.

Leveluk SD501 the true Continuous Kangen Water Generator.

Here are a few of the Key points about the machines:

- Our machines run longer and more consistently
- Our machines can produce Strong Acidic Water
- Our power supply utilizes highest quality Japanese circuits and components
- Our PCB board layout is done to maximize ionization and use of power
- Our power supply has one of the largest heat sinks in the industry
- Enagic is credited with ISO 13485 Certification for manufacturing medical grade equipment

Hopefully this helps clear up the confusion of the power supply and let's everyone know that, despite the confusion, what we have in the SD501 and the Leveluk series of machines, is the best in the industry. The results prove it!