

External Power Solutions for Veterinary Ultrasound Systems

INDUSTRY**Medical****SOLUTION****SL Power ME-Series****APPLICATION****Ultrasound
Medical Imaging****CHALLENGE**

A customer faced the challenge of needing an external AC-DC power supply (PSU) with a medium level of 60 Watt over a wide range AC input, providing a 15 V output for their next gen high-end ultrasound unit, dedicated for veterinary use. This unit had to serve end-customers around the clock in various outdoor settings, scanning horses and other bigger farm animals, where robustness is essential. Therefore, the reliability of the PSU was crucial. Additionally, the PSU needed to meet IEC 60601-1 medical safety standards, IP class 22 while also ensuring EMI class B with 6 db margin. To ensure long-lasting availability of the product, the customer was already looking for a Level VI compliant product.

SOLUTION

The ME series, a reliable adapter from the SL Power product line, was chosen for its perfect price-performance ratio. This series fulfilled the customer's needs for robustness, proven performance in the field, and with Level VI the safety of being available for years to come. The ME series offers a universal input range of 90-264 VAC, making it suitable for various veterinary clinical settings. It meets EN55011/CISPR11, FCC Part 15.109 and UL/EN/IEC60601-1, 3.2 edition. In addition, the longer than 7 years E-cap life was highly valued by the customer.

The robustness of the unit was exceptional, which was very important for the veterinary surroundings. The evaluation on the customer site was performed with a trial unit, allowing the customer to test the product quickly and efficiently.



RESULT / CONCLUSION

With the quick delivery of a trial unit, the customer was able to conduct the external adapter test earlier. The ME series' extended variability based on available connectors fulfilled the customers' requirements on a standard external PSU at a very good price-performance ratio. The combination of high product reliability, a history of extraordinary service and superior product performance, along with the safety of future deliveries, ensured that the customer trusted AE as the best partner for powering their veterinary ultrasound.

ADDITIONAL BENEFITS

The customer received exceptional application support from the Advanced Energy (AE) representative as well as from the AE engineering team, and their needs were 100% met by using a standard product. This reconfirmed AE's reputation for the highest standards in quality and reliability regarding their external adapter portfolio targeting medical applications.



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