

# Advanced Imaging Modalities: Powering New Intravascular Insights

**INDUSTRY****Medical****SOLUTION****uMP Gen II Series****APPLICATION****Imaging****CHALLENGE**

The customer needed a modular AC-DC power supply with a medium level of 600 W, providing outputs of 12 V and 48 V for an advanced imaging modality. This modality supports doctors in interventional cardiac labs by providing additional insights. The customer required a power supply that complies with IEC 60601-1 medical safety standards and IEC 60601-1-2 high-proof concept, which would ensure long-lasting delivery and support smaller volumes.

**SOLUTION**

The standard uMP04 series, an enclosed configurable and IEC60601 tested power supply with PMBus connection, offered a perfect price-performance ratio. It provided the requested 600 W power (400 W on low line), with one module offering a 12 V output and two modules each providing a 48 V output in parallel

to ensure sufficient current for the load. This solution met the customers' needs for high proof in the market and ensured availability for years to come. Additionally, it offered high power density with an intelligent low noise fan at a very low profile (1U size).



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## RESULT

With the fast delivery of a trial unit, the customer was able to test the power supply (PSU) almost immediately. Remarkably, no modifications were needed, as the basic standard PSU met all customer requirements at an exceptional price-performance ratio. The combination of high product reliability, outstanding service, and product performance, along with the safety of future deliveries, ensured that AE was the best partner for powering the requested advanced imaging modality. This modality offers end-users new imaging ways with additional insights.

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## CONCLUSION

The uMP Gen II series not only met the technical requirements but also AE's engineering team provided exceptional application support. The customer experienced seamless integration and received comprehensive assistance throughout the process. This ensured that their needs were fully met with a standard product, eliminating the need for any modifications. The reliability and quality of the uMP Gen II series confirmed AE's reputation for maintaining the highest standards in the industry. This combination of outstanding support, product excellence, and unwavering reliability solidified the customer's confidence in the solution.



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