

Sager Power Systems Product Showcase – December 2020

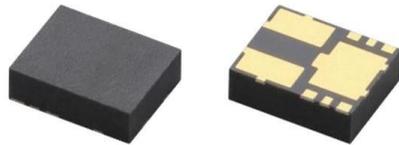


Switch-Mode Power Supply (SMPS) Emissions Filtering: Attenuation vs. Leakage Trade-Off

Designing a power system for medical devices not only requires meeting the electrical requirements for the system, but also requires understanding the relationship between the attenuation of electromagnetic interference (EMI) and the reduction of leakage currents. The power supply is typically one of the main sources for both EMI and leakage current within a medical device. **TT Electronics-Power Partners** discusses the relationship between EMI and leakage currents within the power supply, some methods for reducing both without impacting the other, and how choosing the right power supply can save time and money, including the [PDAM120](#), [PDAM 240](#), [PDAM500](#) series, and [PMP400 24v](#) and

[PMP400 48v](#) power supplies. [Click here](#) to continue reading.

New and Featured Products from [Sager Power Systems](#)



Murata Power Solutions MYR Ultra-small DC/DC Converters

The MYR series PicoBK™ DC/DC converters integrate a coil and a control IC. The ultra-small form-factor measures 2.5 mm x 2.0 mm x 1.0 mm. In most cases, these modules occupy less than half the footprint of the same solution implemented with discrete components. Featuring high efficiency, low noise, and high heat dissipation. The devices are designed for a 2.5 V to 5.5 V source such as a Li-ion battery.



TRACO Power TMR4 and TMR4WI Series DC-DC Converters

The TMR 4 and TMR 4WI Series Regulated 4W DC-DC Converters are available with 2:1 or 4:1 input ranges in a compact SIP-8 package. The converters are available with either single or dual output voltages ranging from 5VDC to 24VDC. The series has 1600VDC of I/O isolation voltage and features short-circuit and overload protection.



Cincon TR160M AC-DC Medical Desktop Adapter

TR160M Medical Adapters offer a 12V to 48V output voltage range, 160W of maximum output power, and efficiency up to 93%. These adapters meet DOE level VI and the latest MOPP approvals while offering Class I and Class II options. Ideal for commercial and medical applications.



MEAN WELL 55V models for UHP-200/350/500

The UHP-200/350/500 ultra-high-efficiency power supplies are available in 200W, 350W, and 500W with an output voltage range of 3.2V to 58V and peak load capability up to 150%. Featuring complete protection functions and 5G anti-vibration capability. The modules are slim and have a low profile (26mm to 31mm).

Features:

- Designed for battery-powered applications
- Very small SMT footprint
- Efficiency 93% (typ.)
- Low quiescent current
- Excellent EMI and thermal performance

More info...**Features:**

- SIP-8 compact package
- 2:1 or 4:1 wide input voltage range
- -40°C to 70°C temperature range without derating
- Up to 87% high efficiency
- Fully regulated outputs
- Remote On/Off control

More info...**Features:**

- Continuous short circuit protection
- Over voltage protection
- Meets CoC Tier 2 and DOE Level VI
- Meets IEC/EN 60335-1
- IEC/EN/UL 60601-1 2 MOPP Approval
- Class I (TR160MA), Class II (TR160MB)

More info...**Features:**

- Fan-less design, convection cooling
- Protections: Short circuit/Over voltage/Over temperature/Over Load
- DC OK active signal and redundant function (option)
- Power on LED Indicator
- Three year warranty

More info...



Showcase Standouts

As this is our December Product Showcase, we thought we'd have a little holiday fun! The people who bring you the Showcase every month have picked their five favorite holiday classics (movies or TV specials).

Without further ado, here are our Editors' Top Five picks:

#5. White Christmas

#4. Miracle on 34th Street

#3. Christmas Vacation

#2. A Christmas Story

And our number one holiday favorite is...

#1. A Charlie Brown Christmas!



Technical Team Corner

Meet Rich Arieta, Director of Business Development for Sager Power Systems. Rich has been selling power products for twenty seven years. He was instrumental in transitioning Sager's application engineering program into the specialized group, Sager Power Systems, and leads business development for Sager's power and thermal value-add program.

Sales Territory: North America

Education: Bachelor of Science in Electrical Engineering from University of Rhode Island



I am very proud to work with such a talented group of Power Systems Sales Engineers (PSEs), sales and marketing professionals who challenge and collaborate with one another toward the success of our common goals.

Fun fact: Only a few colleagues know that I have studied several styles of Karate throughout my life. Given the pandemic this year, I found myself practicing Karate even more as an active form of meditation. Mindfully practicing forms allows the body and brain to relax. When I can find the time, I will return to Okinawa to receive my Master's rank in Uechi Ryu.

*Happy Holidays, and a happy and healthy New Year from all of us
at Sager Power Systems!*



Contact a Sager Power Systems representative for more information: (866) 588-1750 or power@sager.com.



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