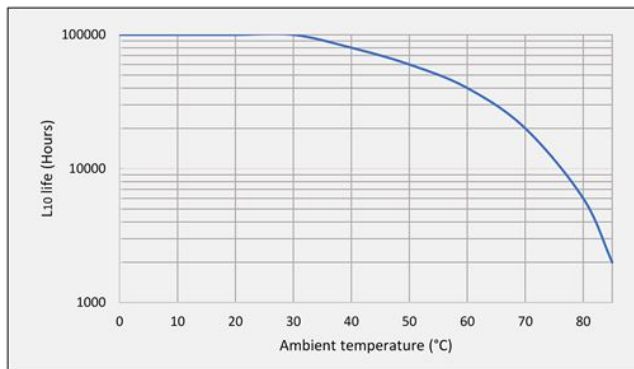


Sager Power Systems Product Showcase – July 2020

RECOM



Typical fan life expectancy curve (survival rate of 90%)

Benefits of Baseplate Cooling

The power density of AC/DC converter modules is increasing, but often requires high airflow rates to achieve their stated performance. However, forced cooling using mechanical fans brings reliability, noise and dust pollution issues. A built-in fan just for the power supply is not always practical and airflow from larger system fans may not be able to provide sufficient localized high flow-rate air. In addition, fans have a limited lifetime, typically 30,000 hours at 50°C for sleeve types and about double that for the more expensive ball-bearing versions. At higher temperatures, the expected lifetime drops dramatically - the graph shows a typical life expectancy curve for a 90% survival rate in installed ball bearing type fans.

RECOM Power delves into these issues and offers practical cooling solutions - [click here](#) to continue reading, or contact a [Sager Power Systems Sales Engineer](#) to find out how our team can help.

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



DDR-480 Series 480W Fanless DIN Rail DC/DC Converter

The DDR-480 series enables DIN Rail DC/DC integration into higher power applications. With an ultra-slim enclosure design with a width dimension of only 85.5mm, the DDR-480 series enables convenient installation onto TS-35/7.5 or 15 standard DIN Rails without worrying about spacing.



RACM60 Series 60W Open-Frame Multi-purpose AC/DC Power Supply

The RACM60-K/OF AC/DC Converters are 2" x 3" medical-grade, open-frame AC/DC converters that provide 4kVAC reinforced isolation. They have an ambient operating temperature range of -40°C to 55°C and up to 85°C with derating. The converters are highly efficient, with a rating of 90% and typical no-load power consumption of 100mW. Also available in a PCB mountable version. RACM60-K/OF



PQU650 Series 650W AC-DC "U" Channel Power Supply Converter

Rated at 650W and employing a "U" channel construction, the PQU650 series products operate with natural convection or forced airflow. The PQU650 series is a 6" x 4" format providing a continuous 650W output, with a constant current overload characteristic and 800W "power boost" at output start to deliver transient loads.



PSAF10R Series 10W USB Interchangeable Plug Adapter

The 10W Interchangeable Plug Adapter comes with USB socket and field changeable AC input clips sold separately, and features less than 75mW power consumption with no load at 230VAC. The interchangeable plug adapter offers low leakage current and voltage drop compensation. EU COC V5 tier 2 and DOE level VI compliant.

modules are multifaceted, meeting medical certifications and industrial safety standards.

Features:

- Fanless design, cooling by free air convection
- 2:1 wide input range
- -40~ 80°C ultra-wide operating temperature range
- 4000Vdc IP-OP reinforced isolation
- 150% peak load capability
- Current sharing up to 1920W (3+1)
- Output voltage adjustable ($\pm 15\%$) via built-in SVR

More info...

Features:

- 60W in open-frame package
- 2" x 3" or 2" x 4" package
- 4kVAC/1min isolation
- 2MOPP certified
- Built-in Class B EMC filter

More info...

Features:

- 90v – 264v AC I/P V Range
- 12v, 24v, 28v, 48v, 54v O/Ps
- -30°C – +70°C
- 650w O/P - Fan Cooled
- 450w O/P - Convection Cooled
- 2 x MOPP Pri-Sec
- 1 x MOPP Pri-Earth
- 12v 0.6A – Fan O/P
- 5v 0.5A – Vcc O/P
- +15% O/P V trim range

[More info...](#)

Features:

- USB socket
- Field changeable AC plugs
- Less than 75mW power consumption with no load at 230VAC and 50Hz
- Low leakage current
- DOE level VI compliance
- EU COC V5 tier 2 compliance
- Voltage drop compensation

More info...



Showcase Standouts

High-Density AC/DC Power Supplies

Engineers are always looking for higher efficiency and more power in a smaller footprint. We define power density as the power per unit of volume. For the Showcase, our unit of measurement is watts/inches cubed, displayed as W/in³.

High-Density Standouts:

- **TDK-Lambda:** [CUS600M](#) series, 27.4W/in³ in a 3 x 5 x 1.46" package
- **Cosel:** [GMA300F](#) series, 25 W/in³ in a 2 x 4 x 1.5" package
- **Mean Well:** [RPS-120S](#) series, 18.2 W/in³ in a 2 x 3 x 1.1" package
- **Excelsys:** [CoolIX1800](#) series, 21.3 W/in³ in a 5 x 10.5 x 1.61" package
- **Artesyn:** [AIF-PFC](#) series, 288.3 W/in³ in a 2.4 x 4.6 x 0.5" (Full Brick) package

[Click here](#) to share your thoughts on our picks.



Technical Team Corner

Meet Sager Power Systems Sales Engineer (PSE) Lisa Auffrey.

Lisa has been selling power products for twenty years, and been a PSE at Sager for the past three years.

Sales Territory: North East North - Rhode Island, Maine, New Hampshire, Massachusetts and Vermont

Education: M.A., Management | Harvard University
B.S., Electrical Engineering / Management Engineering
| Worcester Polytechnic Institute



The best part of being a Power Sales Engineer is working with the engineers at the OEMs to identify and qualify their power requirements. The Sager line card offers the leading players for AC/DC and DC/DC converters, having these lines enables me to find a solution to meet my customer's needs. Also, the Sager team is great to work with, I have the opportunity to work with some of the best Field Service Reps, Inside Sales Reps, and Sales and Marketing Management. We as a team give our

customers and suppliers the best support and are highly respected in the industry.

Although I have worked at Sager for just 3 years, I've worked alongside the Sager organization for many years as a direct sales person and Manufacturer's Representative.

Fun fact: I just finished my Master's degree with the support of my Sager family!

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Going Beyond the Fan:
The Future of Power Supply Thermal Management
Featuring MEAN WELL Product Manager Kai Li

REGISTER FOR OUR WEBINAR TODAY! August 19, 2020 | 12:00 Noon EDT

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



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