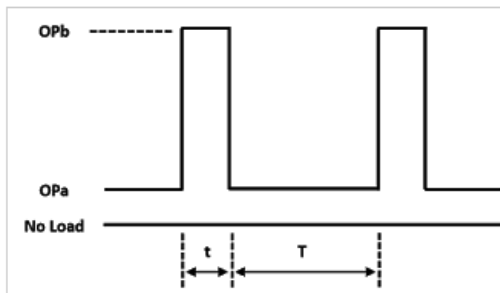


Sager Power Systems Product Showcase – January 2021

TDK-Lambda
Trusted · Innovative · Reliable



Peak power ratings with convection and conduction cooled power supplies

Many open frame power supplies now offer two power ratings, one with convection or conduction cooling and one where external forced air is applied. If the output load significantly varies with time it may be possible to utilize a fan-less (convection/conduction) power supply with a peak power rating. TDK-Lambda's Power Guy explains two different methods to calculate the power of a repetitive peak load to determine if a power supply will work for a given application.

[Click here](#) to continue reading.

Figure 2: Repetitive peak power load example

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



RECOM

RECOM RPX-1.0 & RPX-1.5 Evaluation Modules

RPX-1.0 and RPX-1.5 Evaluation Modules generate a constant output voltage selectable from 0.8V, 1.8V, 3.3V, 5V, 12V, 15V, or 24V, from a DC input in the range of 4V to 36V. The evaluation boards have a maximum continuous output current of 1A or 1.5A. These boards can readily evaluate all functions of the buck converters, such as output voltage selection, control, power good, trim, and output sense. RECOM Power RPX-1.0 and RPX-1.5 Evaluation Modules contain filter components to meet EMC class B levels.



RRC
SETTING STANDARDS
IN POWER SOLUTIONS

RRC RRC2037 POWERPAQ Smart Battery

RRC2037 is a standard battery pack (2S1P) with 7.20V / 2.90Ah / 20.9 Wh. RRC Power Solution Smart Battery Packs are off-the-shelf batteries with world-wide certifications and approvals. RRC Power Solutions Smart Battery Packs are able to communicate via SMBus (SMART standard) / I2C and feature Lithium-Ion technology.



TDK-Lambda
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TDK-Lambda PXG-M & PXD-M DC-DC Converters

PXG-M 15W/20W and PXD-M 30W DC-DC Converters are medical and industrial approved devices with a wide 4:1 input range in a compact industry-standard packages. The DC-DC Converters feature 5kV input to output isolation, 2.5uA touch current and a low off-load power draw. Single outputs are available in 5 V, 12 V, 15 V, and 24 V and dual outputs are available in ± 5 V, ± 12 V, and ± 15 V for all three power levels. Ideal for fixed and portable applications.



MW
MEAN WELL

MEAN WELL HRP Peak Power AC Supplies

HRP-150N, 300N, 600N Power Supplies offer a 12VDC to 48VDC voltage range with up to 53A rated current. These modules feature high efficiency up to 89% and withstand a 300VAC surge input for up to 5 seconds. The HRP-150N, 300N, 600N power supplies are ideal for industrial automation machinery, telecommunication, mechanical, and electrical equipment.

Features:

- Evaluation platform for RECOM Power RPX-1.0 and RPX-1.5 Buck Converters
- Thermal design considerations included
- EMI class B filter
- Easy evaluation of output voltage selection, control, and sensing functions

More info...**Features:**

- No development costs, fast time-to-market
- Integrated LED State of Charge (SoC) indicator
- State-of-the-art lithium-ion cells
- High discharge performance
- JEITA charging profile optimization
- Battery Life Management
- Increased ESD protection up to 8.00kV
- SHA-1 cryptosystem to prevent plagiarism

More info...**Features:**

- Wide 4:1 input range
- Compact package: 2" x 1" - PXD-M / 1.6" x 1" - PXG-M
- Output power: 15W to 20W (PXG-M) / 30W (PXD-M)
- Certified to IEC 60601-1 and IEC 62368-1
- 2 x MOPP isolation
- Low no-load power consumption

More info...**Features:**

- Universal AC input / full range
- Built-in active PFC function, PF>0.94
- 250% peak power capability
- High efficiency up to 89%
- Withstand 300VAC surge input for up to 5 seconds
- Short-circuit, overload, over-voltage, and over-temperature protection
- Built-in remote sense function

[More info...](#)



Showcase Standouts

In our Standouts section, we typically feature products or series. **This month we want to highlight factors impacting lead-times for power and battery products in Q1 and Q2 2021:**

- Chinese New Year – Chinese New Year begins February 12, 2021
- Raw Material Shortages – The industry is seeing constraints on several critical components, including MOSFETs, MLCC's, magnetics
- Ocean and airfreight transportation delays – Ocean freight deliveries are delayed by as much as 2-3 weeks due to port interruptions and overbooked vessels. The price of air freight is prohibitive in the current market.
- Reduced manufacturing capacity due to Covid-19
- Increased demand in the electric vehicle market has caused a shortage of lithium-ion batteries that will push lead times to 20-24 weeks



We don't expect these conditions to improve until late Q2 2021. Sager Electronics is prepared for these disruptions, and can support you with inventory and supply chain programs to keep your business moving.



Technical Team Corner

Meet Rick Hauch, Power Systems Sale Engineer for Sager Power Systems. Rick has been selling power products for twenty-seven years.

Sales Territory: Midwest

Education: Southwestern Michigan College - Electrical and Electronic Technology



What is the best part about being a Power Systems Sales Engineer?

Being tasked with finding the best fitting P.S.U., Active or Passive Cooling Product or anything else we offer from the Sager Line card that makes our business partner's / customer's job easier. I truly have enjoyed the partnerships that have formed over the last 5 years since joining Sager Electronics with both our customers and suppliers.

Fun Fact:

After college and before getting into a job that would become a career, I was a PGA Professional. While working for a local radio station broadcasting the Western Amateur, I had the opportunity to interview Tiger Woods right after he graduated from high school. He was as confident then as he is today.



JOIN THE DISCUSSION

**HOW ADVANCEMENTS IN BATTERY TECHNOLOGY
AND BATTERY CHARGERS
ACCELERATE AUTOMATION AND UNLOCK CREATIVITY**

With Experts from **SAGER** **AMETEK** **GATE**

FEBRUARY 9, 2021 @ 3PM EST

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



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