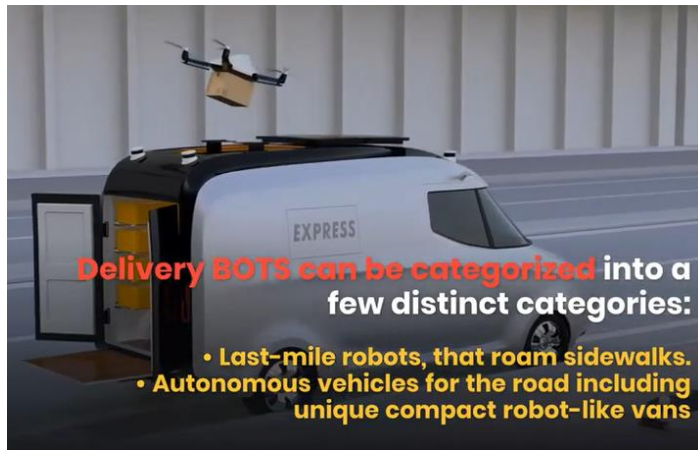


Sager Power Systems Product Showcase – September 2020



Are delivery robots (Bots) the future of home delivery?

Recently U.S. regulators, have granted permission for certain autonomous vehicle companies to start deploying low-speed electric delivery vehicles (delivery robots). Autonomous delivery vehicles enable a future where everything comes to you directly on-demand. It is estimated that food & grocery delivery revenue is set to grow steadily and reach \$200 billion by 2025. Delivery Bots are typically electrically powered from lithium-ion batteries and require high efficiency DC-DC converters that minimize size and weight to maximize travel distance between re-charge.

Calex explores the possibilities and offers practical power solutions for these applications - [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](#)



MEAN WELL RSD-500 500W Enclosed Type DC/DC Converter

Enabling quick and easy wiring during installations, the RSD-500 series power supply has 1U low-profile enclosure design and input/output terminal blocks. The RSD-500 series meets both railway and ITE safety standards.



Power Sonic PSL-SC Lithium Batteries

Combining proven lithium technology with an intelligent battery management system (BMS), the PSL-SC range delivers a lithium battery that lasts longer, weighs less, and charges quicker than the equivalent lead-acid battery. PSL-SC features an intelligent BMS that monitors and reacts to multiple voltage, current, and temperature events to maximize performance, battery life, and safety.



TDK-Lambda i7C Series 300W Buck-Boost DC-DC Converters

The i7C series of non-isolated step-up/step-down converters are ideal for generating additional DC output voltage rails up to 300 W from a single output 12V, 24V or 48V AC-DC power supply. Power losses are minimized allowing the product to operate and deliver high useable power in demanding thermal environments. The i7C series is available in three mechanical configurations: low profile open frame, baseplate construction, or integral heat sink.



TRACO POWER TPI Series Open Frame Power Supplies

The TPI 30/65/125W open frame AC-DC power supplies are full-featured, industrial power supplies in a compact footprint with IEC/EN/UL 62368-1 approval. Each series is ErP compliant (<0.3W no-load power consumption) and meet EMC characteristics for applications in industrial automation and test and measurement fields.

Features:

- Fanless semi-potted design, improves system anti-vibration and moisture/dust proof capabilities
- 2:1 wide input range
- -40~ 80°C ultra-wide operating temperature
- 4000Vdc IP-OP reinforced isolation
- Output voltage adjustable (15%) via built-in SVR
- Protections: short circuit / overload / over voltage / input reverse polarity / input under voltage
- Operating altitude up to 5000m
- Ultra slim

[More info...](#)

Features:

- Deep cycle lithium battery
- BMS provides optimum safety and battery life
- Higher capacity or voltage capability through parallel or series connection
- Super safe lithium iron phosphate (LiFeP04) chemistry
- Compact design
- Up to 10 times longer cycle life than lead-acid batteries

[More info...](#)

Features:

- High efficiency - up to 97%
- Wide 5 to 28V or 9.6 to 48V output adjustment
- Wide 9 to 53Vdc input range
- Low component count with minimal external components
- Low airflow with minimal derating requirements
- High power density
- Longer battery life

[More info...](#)

Features:

- 120% to 130% peak power function
- -40°C to 85°C operating range
- 30W / 65W full load to 60°C convection cooled
- 3000VAC I/O reinforced isolation
- No-load input power <0.3W (acc. ErP directive)
- Up to 93% high efficiency
- Internal EN 55032 Class B filter
- Protection Class II prepared

[More info...](#)



Showcase Standouts

This month we asked Tuan Nguyen, our Power Sales Engineer in Southern California, to list a few of his standouts that he recommends to his customers.

- [Artesyn – IHP](#) - 8-modules configurable up to 24KW, intelligent centralized power system with an internet GUI interface.
- [EOS Power – MULP](#) – Low profile <0.75 inches in a 3x5 platform, industrial, medical (BF rated). Manufactured in India.
- [Vox NEVO+600/1200](#) - Smallest Footprint in configurable market. Medical and industrial versions available.
- [ABB Power CC1600](#) – Conduction cooled AC/DC IP65 rated for outdoor applications. I2C interface.
- [Cincon CFM300S series](#) – 300W AC/DC with forced air, efficiency up to 94% in 3x5 package.



Technical Team Corner

Meet Sager Power Systems Sales Engineer (PSE) Jim Reiser. Jim has been selling power products for over fifteen years.

Sales Territory: South East - Tennessee, North Carolina, South Carolina, Georgia, Alabama, Mississippi, Florida

Education: Bachelor's of Science in Aeronautical Engineering from Embry-Riddle Aeronautical University, Daytona Beach



The best part of being a Power Sales Engineer is the diversity of the customer base that you get to work with and the varying array of interesting products customers create - all needing some type of power conversion and thermal management design assistance.

Fun fact: I came to Florida, from Maryland, for college, never left, and do not plan on ever leaving the Florida coastal lifestyle.

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



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