PRESS RELEASE

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High-power drivers, safety switches & rack systems:

SCHULZ-ELECTRONIC WITH SEVERAL INNOVATIONS AT THE LASER WORLD OF PHOTONICS 2025

SCHULZ-ELECTRONIC, a renowned solution provider for professional power supplies, will be presenting several innovations at this year's international trade fair for lasers and photonics alongside its tried-and-tested products. Trade fair highlights at Laser World 2025 include the newly developed LDDP-30-125 laser diode driver, the SES safety switch presented for the first time and individually designed rack systems for industrial laser power supplies.

With new highlights in the portfolio of DC/DC drivers and new electrical laser safety technique SCHULZ-ELECTRONIC will be represented at this year's Laser World of Photonics. In addition to the three new laser diode drivers LDDP-30-125, LDDP-12- 125 and new models of the uniLDD series, the new safety switch SES will be presented. This fulfills performance level "e" of the EN 13849-1 safety standard and electrically isolates the laser diodes directly from the driver. In addition, various rack systems for industrial Laser power supplies presented.

LDDP-30-125 - The compact high-power laser diode driver

The innovative buck/boost topology enables operation with commercially available 48 VDC power supply units and makes it particularly suitable for compact systems in the medical and industrial sectors as well as for mobile applications, for example in drone defense.

With an output of up to 3,600 W and dimensions of just 180 x 70 x 28 mm, the device is the smallest driver in its class. Fully insulated interfaces, a parallel connection on the output and an extremely low ripple round off its performance profile. The LDDP-30-125 is distributed exclusively by SCHULZ-ELECTRONIC.

SES - Electronic safety switch with performance level e

With the SES semiconductor safety switch, SCHULZ-ELECTRONIC is presenting a maintenance-free, electronic alternative to mechanical safety switches for laser systems with high switching frequencies for the first time officially certified to Performance Laevel e. It is ideal for laser applications with high switching cycles. The self- monitoring semiconductor switch safely isolates the laser diode and driver from each other, enabling a quick restart without the need for a complete system restart. This makes it ideal for systems with high switching cycles.

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Model variants of the SES are available up to 150 V and up to >400 A. The SES semiconductor switch is certified in accordance with DIN EN ISO 13849-1 and fulfills the highest performance level (PL e).

Rack systems for industrial laser power supply up to over 100 kW

For industrial laser applications with high power requirements, SCHULZ- ELECTRONIC offers individually designed rack systems up to hundreds of kilowatts that are precisely tailored to customer-specific requirements. SCHULZ-ELECTRONIC accompanies supports its customers throughout the entire process: From application analysis and safety and design aspects through to production, commissioning and long-term support.

Expertise for laser and photonics applications

SCHULZ-ELECTRONIC is your specialist for sophisticated laser power supplies and special solutions:

- **Compact high-performance drivers** with high dielectric strength and exceptional power density - ideal for pumping applications.
- **Pulse drivers up to >1200 A** for highly dynamic laser fusion projects.
- **Efficient safety switches** (PL e) for electrical isolation of the laser diode - exclusively from SCHULZ-ELECTRONIC.
- **Special solutions for medicine, industry and defense**, e.g. mobile IP67- compliant systems for drone defense.
- **Complete systems** including timing generators, cooling solutions and rack systems up to >100 kW.
- **Pulse delay generators** with up to 36 channels

About SCHULZ-ELECTRONIC

SCHULZ-ELECTRONIC is a leading solution provider and development partner for professional power supplies. The product portfolio includes all leading brands and ranges from laboratory power supplies and industrial power supplies to laser diode drivers and pulse generators. In addition, SCHULZ-ELECTRONIC develops highly complex special solutions and complete systems from batch size 1 for the automotive industry, the solar and photonics sector, research and development facilities, the aerospace industry and the railroad sector. Founded in 1975, the company is headquartered in Baden-Baden and is celebrating its 50th anniversary this year. It also has branches in Berlin, Basel (CH) and Shanghai (CN).

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Caption: SCHULZ-ELECTRONIC's trade fair highlights include rack inserts designed and manufactured for a drone defense system.

Image source: SCHULZ-ELECTRONIC GmbH

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