

TDK-Lambda Israel MAGAZINE

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New Releases & Updates

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▶ Same Unit. Expand Anytime.

More Power
More Standards
More Capabilities

GENESYS™ AC

Where Brilliance Meets Precision



A New Revolution in Programmable AC Power Upgrades

TDK-Lambda continues to expand the flexibility of the GENESYS™ AC platform with a new capability that changes how compliance standards can be added to programmable AC power systems.

With the latest release of the VCP software, users can now **activate additional standards remotely** using a dedicated activation code, directly at the customer site. This eliminates the need to return the unit to the factory, reducing downtime, avoiding interruptions to existing system integration, and simplifying the overall upgrade process.

The activation process can be performed either through the unit's touchscreen interface or via the VCP software, providing users with a straightforward way to unlock new functionality when project requirements change. This scalable approach allows customers to expand compliance testing capabilities over time without replacing existing hardware.

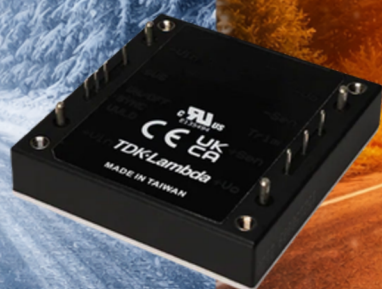
The new functionality is especially valuable for laboratories and development environments working with multiple compliance standards or evolving qualification requirements. By removing logistical delays and reducing service complexity, systems can remain operational while capabilities continue to grow throughout the product lifecycle.

The flexibility of the GENESYS™ AC platform also extends to output power scalability. By using external **PWR booster** units, customers can expand system capability **up to 45 kVA**, allowing available output power to grow according to future demand rather than relying on oversized systems from the beginning.

From remote standards activation to scalable power architecture, the GENESYS™ AC series is designed to evolve together with modern test environments while supporting long-term flexibility directly at the customer site.

TDK-Lambda

DC-DC
PYH200 Series



Ready for a small challenge?

Recently, we celebrated International Mathematics Day in TDK-Lambda.



Designed For Harsh Environments

The PYH200 Series

The TDK-Lambda PYH200 Series is a **200 W DC-DC converter** designed for demanding applications where reliability and environmental durability are essential. Built in a standard 1/2 brick form factor, the series is intended for use in industrial systems, transportation platforms, test and measurement equipment, and other rugged operating environments.

One of the key advantages of the PYH200 series is its exceptionally wide 14–160 VDC input range, allowing stable operation across varying electrical conditions and supporting multiple system architectures with a single platform. The converters are also designed to operate in harsh thermal environments, with a working temperature range of -40°C to +100°C.

To support mission-critical applications, the series complies with **MIL-STD-810F** requirements and provides 3,000 VAC input-to-output isolation, helping ensure electrical robustness and long-term system stability. Available output options include 12 V, 15 V, 24 V, and 48 V, alongside output trim capability from -20% to +15% for additional design flexibility.

Additional features such as remote ON/OFF control and synchronization with an external clock allow easier integration into complex systems and distributed power architectures.

By combining environmental ruggedness, wide input flexibility, and compliance with recognized standards, the PYH200 series is well suited for applications where stable and dependable power is critical.



+



= 4



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= 6



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= 10



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The MU Series

Compact
Quiet
AC-DC



The MU Series - Compact design, low acoustic noise

The MU Series represents a modular power supply platform designed with a strong emphasis on space efficiency, acoustic performance, and system-level flexibility. The MU4 and MU6 models are housed in a slim 1U aluminium enclosure, incorporating intelligent thermal management to support stable operation under varying load conditions.

Depending on input voltage, the platform delivers output power ranging from 600 W to 1500 W. One of its key design advantages is adaptive fan control, which dynamically adjusts cooling performance and helps reduce acoustic noise levels to as low as 36 dBA in typical operating environments.

From a system integration perspective, the MU platform supports up to 13 isolated outputs, offering a wide programmable voltage range from 3.3 V to 105.6 V. The modular power architecture allows individual power modules rated from 96 W up to 1008 W, enabling designers to tailor power distribution precisely to application requirements without compromising efficiency or footprint.

Engineered for demanding environments, the MU Series is qualified for both medical and industrial applications. It also includes PMBus™ digital communication for advanced system monitoring and control, and is backed by a 7-year warranty, reinforcing its positioning as a long-term, reliable solution for complex power system designs.

International Earth Day



International Earth Day

Last April, TDK-Lambda joined the global celebration of **International Earth Day**, highlighting an important environmental milestone across the company's manufacturing operations.

Since 2024, all TDK-Lambda production sites worldwide have been sourcing 100% of their electricity from renewable energy sources. This achievement spans seven production facilities across six different countries and reflects the company's ongoing commitment to more sustainable operations.

A special milestone was reached earlier by TDK-Lambda's technical center in Nagaoka, Japan, which has operated entirely on renewable energy since July 2021.

These efforts are part of the broader environmental vision of TDK Corporation, with the long-term objective of transitioning all electricity consumption to renewable sources and reducing carbon emissions to zero by the year 2050.

TDK-Lambda Israel
GENESYS+™
New 400V Output Model



GENESYS+™ Expands with New 400 V / 7.5 kW Model

TDK-Lambda continues to expand the GENESYS+™ platform with the introduction of a new **400 V / 18.75 A model, delivering 7.5 kW** of continuous power in the series' compact and well-established 1U bench/rack format.

The new addition combines high power density with advanced programmable capabilities, making it suitable for both laboratory environments and demanding automated test systems.

Despite the compact size, the unit supports a wide range of operating and simulation functions, including CV/CC operation with automatic crossover, Constant Power Limit, Slew Rate Control, Internal Resistance Simulation, and waveform sequencing with up to 100 programmable steps.

Designed for flexibility, the system can operate locally or remotely and supports parallel connection of up to 12 units, allowing users to scale output power according to application requirements.

The 400 V model addresses a growing need for higher-voltage programmable DC sources across industries such as electric vehicles and hybrid systems, defense laser applications, renewable energy, charging infrastructure development, and advanced battery testing.

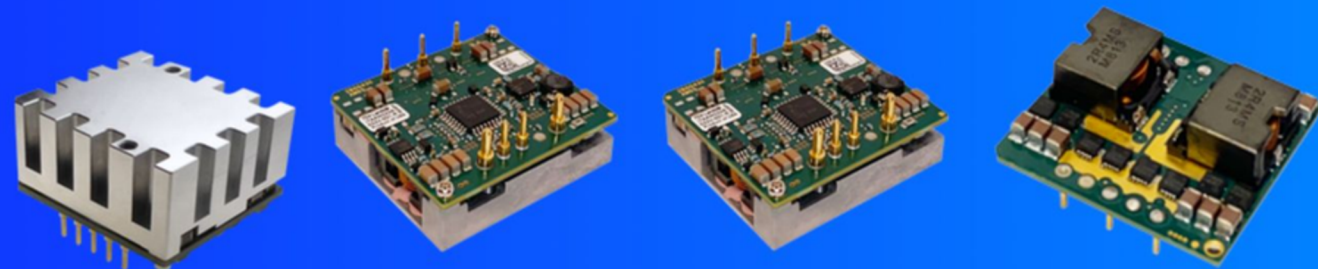
Typical use cases include EV battery startup simulation, BMS validation through internal resistance simulation, and high-current source testing using parallel configurations.

With **efficiency reaching up to 92%** and backed by a five-year warranty, the latest GENESYS+™ model continues the platform's focus on combining compact design, precise control, and long-term reliability in modern power test environments.



i7A Series

Small Size. Massive Power.



Expanding the i7A Family with Higher Power Density

TDK-Lambda is expanding its **i7A family** of non-isolated DC-DC buck converters with new high-performance models delivering up to 1000 W and output currents of 60 A and 80 A. The new models maintain the compact 1/16th brick footprint, helping designers maximize board space while increasing available power.

A key addition is the use of redundant input and output power pins, enabling scalable power architectures from 400 W to 1000 W and simplifying current distribution within the system.

Despite the higher power capability, each unit **weighs only 85 grams**, making the series suitable for compact and weight-sensitive applications. The converters also achieve efficiency levels of up to 99%, helping reduce thermal losses and cooling requirements.

With a wide 18–60 VDC input range, adjustable 3.3–28 VDC output voltage, and multiple cooling options including open-frame, baseplate, and heatsink versions, the expanded i7A family continues to provide flexible and space-saving power conversion solutions for modern system designs.



Customer VIP Event

Customer VIP Movie night

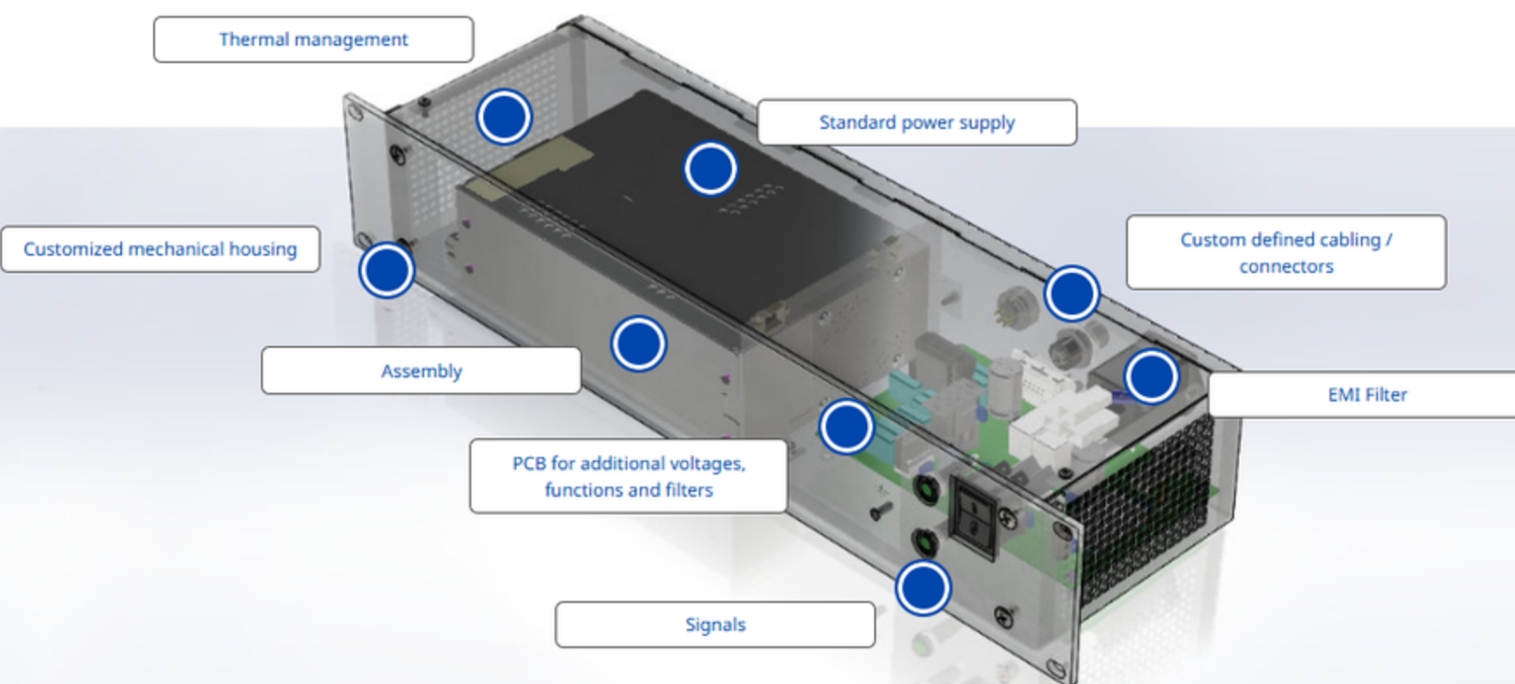
Lately, We hosted customers for a special VIP evening at **Planet Rishon LeZion**.

The event combined a relaxed atmosphere with an opportunity to reconnect outside the day-to-day routine, bringing together customers, partners, and members of our team for an enjoyable shared experience.

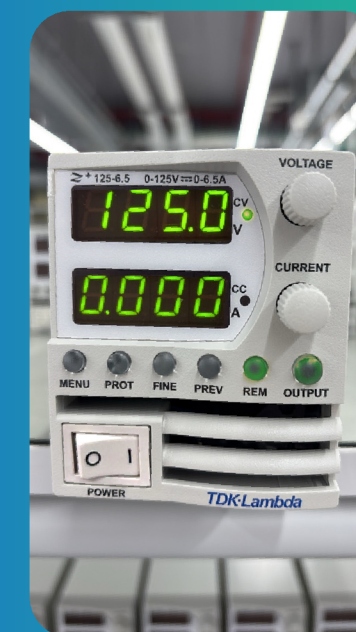
Guests were welcomed with good food, refreshments, and a private screening of a comedy film, alongside a short introduction to several of our latest products and developments. Beyond the presentation itself, the evening focused mainly on personal interaction and open conversation in an informal setting.

For us, maintaining close relationships with our customers is an important part of how we work. Face-to-face meetings like these help strengthen both the professional and personal connections built over years of collaboration.

We would like to thank everyone who joined us and helped make the evening such a success.



▶ TDK-Lambda Israel
New Z+125-6.5
 Now on the Line



GENESYS^{DC}

Power + Solutions

Custom Solutions from TDK-Lambda

Sometimes, off-the-shelf power supplies can't keep pace with the unique demands of a system. That's where Power+Solutions steps in, turning our vast library of over 6,000 standard models into a fully customized power solution you can deploy straight away.

From enhancing EMI filtering and optimizing thermal management to integrating bespoke cable harnesses and tailored control signals like PMBus and I²C, we work hand in hand with your team.

Our flexible approach spans every stage of delivery selecting the ideal base supply, adapting mechanical housings for rugged environments, modifying PCBs to meet special voltage or safety requirements, and even performing custom assembly with your own labeling. This single-supplier model streamlines logistics and speeds time-to-market, especially for small to medium production runs where efficiency and reliability are paramount.

Throughout development, we uphold rigorous quality standards: environmental stress testing (HALT/HASS), full certification under IEC, UL, and other global norms, and 100% parametric and functional testing on every unit. The result is a power solution that not only meets your exact specifications but also delivers peace of mind with TDK-Lambda's worldwide support network standing behind it.

Introducing the Z125-6.5: Expanding the Z+ Series

TDK-Lambda is introducing the **Z125-6.5**, the newest addition to the Z+ Series of programmable DC power supplies. Developed, manufactured, and serviced by TDK-Lambda Israel, the model delivers up to 800 W in a compact 2U benchtop / rack-mounted design.

The unit provides an output range of 0–125 VDC with up to 6.5 A of output current, combining high power density with advanced control capabilities.

A key feature of the Z+ platform is its built-in arbitrary waveform functionality. The supplied waveform-creator software supports up to 12 programmable value points per waveform, with up to four waveforms stored internally for repetitive or single-shot operation. Advanced waveform control is also supported through LabVIEW drivers.

The Z125-6.5 supports both front-panel and remote operation, with fast command processing and deterministic output sequencing for repeatable test conditions. Two programmable output pins allow external relay or control functions without requiring a separate PLC.

With its compact size, integrated waveform control, and flexible operation, the Z125-6.5 is well suited for demanding **R&D and automated test environments**.



TDK-Lambda Israel Customer Service Charter

We are happy to share TDK-Lambda Israel Customer Service Charter

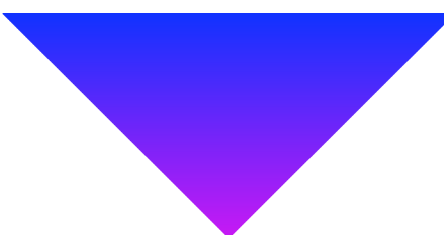
The charter designed to ensure clear communication, efficiency, and high-quality support across all teams.

Our goal is to provide a consistent and reliable service experience for our customers. If you require any assistance or have questions, you are always welcome to reach out to the team.

In addition, our customer portal is available at all times, allowing you to view open orders status and delivery dates in real time. If you are not currently connected to the customer portal and would like access, please contact the coordinator responsible for your account.

We are here to support you and ensure your needs are handled promptly and effectively.

TDK-Lambda Israel Internal Sales Team



TDK-Lambda Israel Service Charter

Transparency and Simplicity

- Providing up-to-date and accessible information across all communication channels: customer portal, phone, email, and face-to-face meetings.
- Adapting processes and logistical requirements to meet each customer's unique needs.
- Delivering high-quality, courteous, and professional service while fostering mutual respect and a strong sense of partnership.
- Providing weekly updates on product series lead times.

Continuous Improvement

- Managing raw material availability and production capacity in alignment with forecasts, market trends, and our commitment capabilities.
- Meeting promised delivery dates while continuously striving to shorten lead times.
- Maintaining ongoing efforts to achieve industry-leading lead times.

Fast Response Times

- Providing an initial response within one business day.
- Closely monitoring orders and ensuring regular updates throughout the delivery process.

Professionalism and Expertise

- Delivering after-sales support, including repair services, with a target turnaround time of less than 14 days.
- Maintaining strong knowledge of production and logistics processes.
- Continuously enhancing the team's level of professionalism.



Customers Portal





Join Our Team!

Are you looking for an opportunity to work in a global company with the heart and warmth of a family?

At TDK-Lambda, we're always searching for talented individuals to join our growing team, whether you're an engineer, a production expert, or looking for other exciting roles, we have opportunities waiting for you.

Become part of a company where innovation meets collaboration, and every employee makes an impact.

For more information and to send your CV: HR@tdk-lambda.co.il

We'd love to hear from you!

Celebrating 11,000 Followers on LinkedIn

We are delighted to reach the milestone of 11,000 followers and want to thank everyone who has joined our community.

Following TDK-Lambda Israel means staying updated on company news, product highlights, events, and stories from our team. We share insights from the field, give a look behind the scenes, and keep you connected to what is happening in our industry.

We appreciate your trust and look forward to growing together.

Scan and follow!

