

TDK-LAMBDA STEPS UP TO CORONAVIRUS CHALLENGE

TDK-LAMBDA MANUFACTURING FACILITY IN KARMIEL, ISRAEL



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GROWING NEED FOR MEDICAL IMAGING IN THE U.S DUE TO THE COVID-19 PANDEMIC

A new survey* in the U.S, published in the end of June, revealed a surge in some medical imaging procedures due to the COVID-19 pandemic.

Not surprisingly, the majority of the radiology administrators surveyed, said that the number of portable X-ray scans conducted, has increased by 40% comparing to the same period in 2019.

In April, the FDA issued guidance to provide a policy to help expand the availability and capability of medical X-ray, ultrasound and magnetic resonance imaging (MRI) systems.

According to an article in "Imaging Technology News"* , many facilities in the U.S have decided to extend hours of operation; and to create a more efficient workflow to manage the increase of volume in specific imaging procedures.

TDK-Lambda is a world-leading manufacturer of power supplies for medical imaging devices. Our supplies operate around the globe powering MRI, X-ray, CT and PET scanners.

Top producers of MRI scanners and CT machines, for example, are using TDK-Lambda's Genesys™ programmable power supplies, primarily because of the wide range of products in the series. Output power levels of 750W to 15kW, output voltages from 0-6V to 0-1500V and output currents of up to 1,000A are available.

* <https://www.itnonline.com/article/insight-impact-covid-19-medical-imaging>



THE REMOTE PATIENT MONITORING MARKET WILL GROW BY ANOTHER \$1 BILLION - DUE TO THE COVID-19 PANDEMIC

Remote patient monitoring systems have been an essential part of patients' treatment during the COVID-19 pandemic. A fresh report published in June 2020, looking at this market for the 2020-2027 period, expects the global remote patient monitoring market to grow by \$1 billion, to \$1.7 Billion by 2027, a significantly higher growth than what was previously projected¹.

Patient monitoring systems include monitors that can collect essential information on the patient's status, including vital signs, such as temperature, blood pressure, heart rate, respiratory rate as well as glucose levels, respiratory patterns and ventilators' effects.

This market growth reflects the great need for monitors as an essential part of patients' treatment. At the heart of the first spike of the COVID-19 pandemic, the FDA published a policy which allowed for an extended use of vital sign monitors as part of remote care². The use of patient monitors and the possibility of remote access have been essential in the attempt to reduce exposure to COVID-19.

TDK-Lambda is the world's leading manufacturer of standard medical and healthcare power supplies, producing an extremely wide range of products which can power a variety of medical devices, including patient monitors.

References:

1. <https://www.prnewswire.com/news-releases/remote-patient-monitoring-systems-market-to-exhibit-a-revised-cagr-of-12-9-during-2020-2027-due-to-covid-19--301069988.html>

2. <https://www.fda.gov/news-events/press-announcements/coronavirus-covid-19-update-fda-allows-expanded-use-devices-monitor-patients-vital-signs-remotely>



TDK-LAMBDA UK SUPPORTS MANUFACTURERS OF VENTILATORS AND X-RAY EQUIPMENT

TDK-Lambda UK is stepping up to the coronavirus challenge. The company's healthcare power supplies are used in critical medical and laboratory applications globally. Many of these products are built in TDK-Lambda UK's factory in Ilfracombe, Devon.

Since the COVID-19 outbreak, TDK-Lambda UK began receiving requests from healthcare customers to expedite and increase delivery quantities, by six to tenfold in some cases.

Among the products were the 175W rated NV series for ventilators, the 300W EFE300M for virus detection, the 550W Vega modular power supply for COVID-19 swab testing, and the new QM5 700W modular power supply for mobile X-Ray equipment.

See the full article on TDK-Lambda UK News:
<https://blog.uk.tdk-lambda.com/uk/2020/07/16/tdk-lambda-steps-up-to-the-coronavirus-challenge/?platform=hootsuite>



ARE YOU TRYING TO DOWNSIZE YOUR ELECTRICAL DEVICE?

TDK-Lambda Presents: 30w Output From Only 1x1 Inch, Fully Isolated Converter

TDK-LAMBDA offers the fully isolated CCG series of DC-DC converters which are among the smallest in the industry: about 50% less than comparable earlier products.

The CCG series achieves an industry leading power density rating, providing up to 30 watts of power from a mounting footprint of only 1 square inch.

At the same time, it offers about twice the input voltage range of comparable earlier products (9 to 36 VDC and 18 to 76 VDC input types available).

The CCG converters therefore reduce footprint requirements, and enable higher power density on control boards for various types of equipment.

In other words: these unique compact dimensions are contributing to downsizing of customer equipment, and also contributing to reduce items and inventory of customers.

The CCG series is designed for use in a large number of applications, including communications, industrial control, test and measurement, broadcast and portable battery powered equipment.

The series operates in ambient temperatures of -40°C to $+85^{\circ}\text{C}$, an important feature for outdoor equipment.



THE 10 ADVANTAGES OF OUR GENESYS+™ 1,700W MODELS

TDK-Lambda's 1,700W model of the GENESYS+™ programmable DC power supplies, was developed to answer the needs of many advanced industries. These include: Automotive, Aerospace, Medical Device, Semiconductors, Renewal Energy, Testing, Robotics and more.

The 1,700W model, and the GENESYS+™ series in general, offer many advantages in terms of operation range, programming features, user interface, voltage control and others:

- ▲1. The new models provide the capability of operating from a single phase wide range ac input of 85 to 265Vac, rather than three phase 208/400/480Vac.
- ▲2. The range of units is wide: they are rated at 0V to 10V, 20V, 30V, 40V, 60V, 80V, 100V, 150V, 300V and 600V.
- ▲3. They are capable of operating in constant voltage, constant current and constant power models.
- ▲4. Up to four units can be connected in parallel with an auto-configuring advanced master/slave system that provides dynamic load response and ripple and noise characteristics comparable with that of a single power supply.
- ▲5. All GENESYS+™ 1.7kW products share a common 1U high 19" (483mm) rack mountable chassis and weight under 5kg.
- ▲6. Programming across all the GENESYS+™ series can be achieved by either utilizing the front panel controls or remotely via LAN (LXI 1.5), USB 2.0 and RS232/485 communication, or the isolated analog control and monitoring interface (0-5V or 0-10V) which are provided as standard.
- ▲7. Software drivers, a waveform creator and a virtual front panel GUI are provided in the software package.
- ▲8. Control of voltage and current slew rate, internal resistance simulation and display brightness control are all standard features.
- ▲9. The series is safety certified to IEC/EN/UL 60950-1, CE marked to the Low Voltage, EMC and RoHS2 Directives and compliant to the industrial IEC/EN 61326-1 standard for conducted EMI, radiated EMI and EMC immunity.
- ▲10. Like other TDK-Lambda products - the series has a 5-year warranty.



TDK-LAMBDA SUPPORTS DIALYSIS MANUFACTURERS AROUND THE WORLD

According to the international Society of Nephrology, 850 million people worldwide are now estimated to have some form of kidney disease.

However, only a few millions of them have access to dialysis treatment.

Dialysis is a procedure that filters and purifies blood using a machine and helps to balance electrolyte and fluid levels in individuals with kidney dysfunction.

It helps patients live longer and generally starts when kidneys are working at less than 10% of their normal functioning.

According to studies, the 5 following factors will drive the growth in use of dialysis worldwide:

1. The increasing geriatric population around the world
2. The growing prevalence of diabetes and hypertension - especially in the East (India, China)
3. The rise in the number of community dialysis centers across the globe
4. Shortage of organ donors and the risks associated with a transplant
5. Better reimbursement policies (medical insurance programs)

TDK-Lambda's Power+Solutions team has gained experience working closely with designers of several dialysis machines that are powered with the digitally controlled EFE300M power supply; and the configurable XMS500 power supply, among other products.

Sources:

<https://ncdalliance.org/the-international-society-of-nephrology-isn>

<https://www.gminsights.com/industry-analysis/dialysis-market>

<https://www.globenewswire.com/news-release/2020/03/03/1994072/0/en/Dialysis-Market-to-Reach-USD-136-15-Billion-by-2026-Driven-by-the-Increasing-Investment-in-Product-R-D-says-Fortune-Business-Insights.html>

<https://www.marketsandmarkets.com/Market-Reports/dialysis-market-1279.html>

GENESYS+™ 1U Half rack NEW RANGE

Programmable DC Power Supplies Half-Rack 1kW/1.5kW in 1U Height

The new, five year warranty, GENESYS+ GH1kW and GH1.5kW half rack, 1U programmable power supply series can deliver power ratings up to 1500W, with the highest power density and lightest weight (< 3.5kg) available in a half rack size. It offers voltages of up to 600V and output current up to 150A with constant voltage, constant current and constant power operation. Control of voltage and current slew rate, arbitrary waveform generation and storage, internal resistance simulation and display brightness control are all standard features.



Features & Benefits

Arbitrary Waveform Generation and Storage	Blank Front Panel Option
Programmable Slew Rate Control	Light-weight <3.5 kg
Constant Voltage, Constant Current and Constant Power Limit Operation	Multi-functional front panel display
Internal Resistance Programming	High-speed Programming
Built-In LAN, USB, RS-232/RS-485 and Isolated Analogue Interfaces	Local / Remote Sensing - software controlled
Optional EtherCAT, Modbus-TCP and IEEE488 Interfaces	Worldwide Safety Agency approvals



Testing



Renewable



Medical/
Scientific

Quick Product Finder

Use the form below to tell us about your required outputs.

If you need additional features, please select them inside the appropriate sections below.



Output

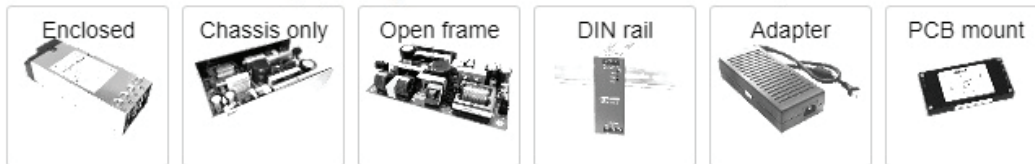
Options



Ch 1 V A W

Total requested output power: 0.0W

Select case or mounting option (leave unselected for 'I don't mind')



Cooling

AC Input type

Input phases

phases

Input connection

connection

Input fuses

fuses

NEW!

MORE THAN 3,000 PRODUCTS IN A FEW CLICKS - TRY OUR QUICK PRODUCT FINDER ONLINE

TDK-Lambda's new **Quick Product Finder** is the fastest way to select a product from our broad range.

The online tool indexes over 900 different DC-DC products, and 2,500 different off-the-shelf AC-DC products.

You can choose from **almost infinite combinations** of our modular ranges, and to display a choice of models just by entering a few search attributes.

The tool - **which is very easy to use** - enables you to find the right product (AC-DC, DC-DC, Programmable) according to your technical requirements, including;

- ▲ AC input type
- ▲ Cooling options
- ▲ Signals and standby supply
- ▲ Isolation / Medical approvals

The tool even enables you to choose the case or mounting option (Enclosed, Chassis Only, Open Frame, DIN Rail, Adapter, PCB Mount)



REACHING \$100 BILLION: THE MEDICAL AESTHETIC MARKET WILL DOUBLE ITSELF IN 8 YEARS

According to a new report by Grand View Research, Inc. the global aesthetic medicine market will double its value in 8 years, with an impressive and constant market growth reaching \$103.4 billion by 2026.

The laser hair removal segment is also expected to grow significantly, with an annual growth rate of 15.9% from 2019 to 2026.

A significant part of this market growth is attributed to Israeli companies. According to the Ministry of Economy and Industry in Israel, the aesthetics technologies sector in Israel has accumulated decades of experience, and has offered innovative solutions for anti-aging, treatment of skin conditions, and hair removal strategies - thanks to the combination of great research and development strengths, together with significant entrepreneurial spirit.

Hair removal technologies have grown and become more and more popular, allowing for a long-term painless treatment. Israel has been part of these developments from early on, with large companies developing already 3 decades ago.

TDK-Lambda has provided power supply solutions for medical aesthetic devices, including the CUS-M and QM series that have been certified to medical safety standards - and address a wide range of applications.

References:

<https://www.prnewswire.com/news-releases/aesthetic-medicine-market-size-worth-103-4-billion-by-2026--cagr-8-9-grand-view-research-inc-301007265.html>

<https://www.grandviewresearch.com/industry-analysis/medical-aesthetics-market>

https://www.grandviewresearch.com/industry-analysis/laser-hair-removal-market?utm_source=prnewswire&utm_medium=referral&utm_campaign=hc_19-feb-20&utm_term=medical-aesthetics-market&utm_content=rl2

<https://itrade.gov.il/canada/israel-glows-with-world-leading-aesthetics-technology/>



Energy Attribute Certificate

This Certificate verifies that
2,267 MWh
Of renewable energy have been redeemed on behalf of
TDK Lambda LTD

Certificate number 2020270489	Certificate date 27/04/2020
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Consumption Period
01/01/2019 – 12/31/2019

Instrument
International Rec (I-REC)
Standard

Energy Source
Ground-mounted solar PV

Location
Israel

2,267 Megawatt hours

Omer Tamir
CEO, EcoTraders Ltd.
Omer Tamir

TDK-LAMBDA GOT A CERTIFICATE FOR CONTRIBUTING TO SAVING 2,267 MWH IN 2019

TDK-Lambda Israel was awarded an Energy Attribute Certificate, verifying that 2,267 MWh of renewable energy have been redeemed on behalf of the company in 2019.

The certificate was awarded by the International Renewable Energy Credit (I-REC) Standard.

An Energy Attribute Certificate is an instrument that provides a unique statement representing the ownership rights to the environmental attributes of renewable electricity generation. It verifies that electricity was generated and fed into the grid from an eligible renewable energy resource (such as wind, solar, hydropower).

In the case of TDK-Lambda Israel, the attributed energy source was a ground-mounted solar PV station.

TDK-Lambda already plays an important role in the renewable energy market, as a power solutions provider, and has been serving local and global green energy companies.

Our power solutions are embedded in solar panel testers, wind turbine systems, electric vehicle charging stations, smart buildings and more.



EXPERIENCING THE GLOBAL SHORTAGE? LOOKING FOR REPLACEMENT PRODUCTS? TDK-LAMBDA ISRAEL CAN HELP YOU

Even during the challenging time that the global market has been experiencing during the COVID-19 pandemic, Israel's TDK-Lambda has continued working full time, as it is an essential manufacturer.

We have recently received many requests for assistance in finding replacement products and solutions due to shortages and problems in various power supply products around the world (long delivery times and / or significant price increases).

Here at TDK-Lambda, we are ready to help find available solutions among all the highest quality products of the company, using our existing inventory here in Israel and at the company's various warehouses around the world.

We are here for you, available through all the common communication channels.

i7C Series NEW RANGE

300W, 9 to 53V Input Non-Isolated Buck-Boost DC-DC Converter

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. The highly efficient i7C series accepts a very wide DC input and has a wide output adjustment range. Three mechanical configurations are available; low profile open frame, baseplate construction for conduction cooling, or integral heat sink for convection or forced air cooling. A full feature Power Good signal, switching frequency synchronization and output current monitoring option is available.



Features & Benefits

Up to 300W in a 1/16th Brick Pin-Out

High Power Density, Less Board Area Needed

High Efficiency - Up to 97%

Longer Battery Life / Low Power Consumed

Wide 5 to 28V or 9.6 to 48V Output Adjustment

One Part Supports Multiple System Voltages

Wide 9 to 53Vdc Input Range

Can Operate From Different DC Source Voltages

Low Component Count
With Minimal External Components

Low Cost

Low Airflow With Minimal Derating Requirements

Easy To Cool In End System



Industrial



Testing



COMM



Broadcast