

 Press Information

Power Supplies

TDK provides upgraded performance and functionality to 3-phase DIN-rail mount power supply series

September 23, 2025

TDK Corporation (TSE:6762) announces additional features and functionality to the TDK-Lambda DRB 3-phase AC-DC DIN rail mount power supplies. The series, with output power levels from 120 to 960 W, is currently offered with a nominal AC input range of 400 to 500 Vac. The upgraded DRB series will now operate over an extended range of 380 to 500 Vac nominal (50-60 Hz), enabling the products to be also used in China, Africa and South America.

In addition, these DIN rail power supplies will now function with DC input voltage ranging from 450 to 810 Vdc, following successful testing to IEC EN 62477-1 for power electronic systems and equipment. This makes them suitable for use in applications where the voltage source is a battery, solar panels, or any other type of rectified bus voltage.

The primary to secondary isolation barrier has been extended from 3510 Vac to 6500 Vdc making them compliant for use with electric vehicle charging equipment under UL 2231-2. In addition, board coated models are now available, (suffixes -A6 and -A7), to provide protection during the use in applications with dust and dirt, flowing mixed gases (IEC 60068-2-60), and salt mist atmospheres (IEC 60068-2-11).

These enhancements cover all DRB 3-phase models from 120 to 960 W. For a clear differentiation from the previous product revisions, all the new products will come with an updated design of the front label. As of today, TDK-Lambda will equip their stocks with new product revisions. The transition period will be finished by Dec 31st, 2025. Users relying on the new features and functionalities should contact their local TDK-Lambda representative during this period.

Main applications

- DC factories, solar and wind energy systems, emergency power systems, electric vehicle charging equipment, railway or grid infrastructure, telecommunications systems

Main features and benefits

- AC input voltage range from 380 to 500 Vac (+15 % / -10 %)
- DC input voltage range from 530 to 675 Vdc (+20 % / -15 %)
- Reinforced insulation between primary and secondary side up to 6.5kVdc
- Models with coated PCBs for harsh environments

Type		DRB120	DRB240	DRB480	DRB960
Input voltage range	V	380 to 500 Vac and 530 to 675 Vdc (nominal)			
Output voltages	Vdc	12, 24, 48 or 72			
Output power	W	120	240	480	960
Efficiency	%	Up to 96.3			
Safety certifications		IEC/EN/UL/CSA 62368-1, 61010-1-2-201, tested to IEC EN 62477-1			
Size (W x H x D)	mm	55 x 129 x 138.2		65 x 129 x 159.3	100 x 129 x 171.9
Warranty		Three years			

About TDK Corporation

TDK Corporation (TSE:6762) is a global technology company and innovation leader in the electronics industry, based in Tokyo, Japan. With the tagline “In Everything, Better” TDK aims to realize a better future across all aspects of life, industry, and society. For over 90 years, TDK has shaped the world from within; from the pioneering ferrite cores to cassette tapes that defined an era, to powering the digital age with advanced components, sensors, and batteries, leading the way towards a more sustainable future. United by TDK Venture Spirit, a start-up mentality built on visions, courage and mutual trust, TDK’s passionate team members around the globe pursue better—for ourselves, customers, partners, and the world. Today, the state-of-the-art technologies of TDK are in everything, from industrial applications, energy systems, electric vehicles, to smartphones and gaming, at the core of modern life. TDK’s comprehensive, innovative-driven portfolio includes cutting-edge passive components, sensors and sensor systems, power supplies, lithium-ion and solid-state batteries, magnetic heads, AI and enterprise software solutions, and more—featuring numerous market-leading products. These are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics, TDK-Lambda, TDK SenseEI, and ATL. Positioning the AI ecosystem as a key strategic area, TDK leverages its global network across the automotive, information and communication technology, and industrial equipment sectors to expand its business in a wide range of fields. In fiscal 2025, TDK posted total sales of USD 14.4 billion and employed about 105,000 people worldwide.

About TDK-Lambda Corporation

TDK-Lambda Corporation is a trusted, innovative leader and global supplier of highly reliable power conversion products for industrial and medical equipment worldwide.

TDK-Lambda Corporation is aligned for fast responses to any customer need with R&D, manufacturing, sales and service locations in five key geographic regions, namely Japan, EMEA, Americas, China and ASEAN.

For more details, please pay a visit to: www.jp.lambda.tdk.com/en/

Further information on the products can be found under [DRB120-3 - DRB960-3 Series Datasheet](#)

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