

Power Supplies TDK developed chassis mount DC-DC Converters RDS-A Series, suit best for instruments related signal on railway system

- Mounting position, terminal block completely compatible with current products (RDS series)
- High efficiency of 86% (RDS180A DC24V Input model)
- Approved by UL/CSA/EN62368-1

June 25, 2020

TDK Corporation (President and CEO: Shigenao Ishiguro) announces a new developed reliable DC-DC Converters, TDK-Lambda brand RDS-A (30/60/100/180W) Series. TDK-Lambda Corporation (President and CEO: Hiroyuki Yashiro) will start mass production and shipment from July 2020(30/60W) and from October 2020 (100W/180W).

While current, chassis mounted DC-DC Converters RDS series will continue to be available, we have developed the RDS-A series, with improvement in characteristics.

The mounting hole position and terminal block shape will be compatible to the current RDS series. Easy product service/maintenance and long term used is possible.

The RDS-A series uses the latest materials and optimizes the circuit configuration to improve efficiency by up to 6% compared to the current product (180W product, 24VDC output). Coatings on both sides of the component mounting board have been implemented to further improve reliability.

The railway is seen as energy-saving and low-carbon means of transportation globally. With the release of this new RDS-A series, we can offer line up of new products to contribute the creation of a safe and environmentally friendly transportation infrastructures.

Major applications

- Railway signal related equipment
- Transport Automation System
- Power plant control equipment

Main features and benefits

- Attachment compatible with Current products
- High efficiency: 6% improvement compared to current products
- Designed to meet EN55011/ EN55032-B, FCC-B, VCCI-B
- Safety standard UL/CSA/EN62368-1 approved
- Coatings on both sides of the component mounting board

• **Major specifications: RDS-A series**

Model	RDS30A-24	RDS30A-48	RDS60A-24	RDS60A-48	RDS100A-24	RDS180A-24
Input Voltage Range	18~32VDC	36~63VDC	18~32VDC	36~63VDC	18~32VDC	
Efficiency (Typ.) (24V type)	83%	83%	84%	84%	85%	86%
Output Voltage	5 / 12 / 15 / 24VDC					
Output Power	30W		60W		100W	180W
Operating Temperature	-20~+60°C (with Derating)					
Safety	Approved by UL62368-1, CSA62368-1, EN62368-1				Subject to approval by UL62368-1, CSA62368-1, EN62368-1	
EMI	Designed to meet EN55011 / EN55032-B, FCC-B, VCCI-B					
Size (W × H × D)	38×95×130 mm		43×95×160 mm		60×95×220 mm	80×95×220 mm

About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately “Attracting Tomorrow.” It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK’s comprehensive, innovation-driven portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2020, TDK posted total sales of USD 12.5 billion and employed about 107,000 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/

You can download this text and associated images from https://www.jp.lambda.tdk.com/en/about/press/20200625_1.html

Contact for the media

Contact	Phone	Email
Mr. Yoichi OSUGA TDK Corporation Tokyo, Japan	+81 3 6778-1055	pr@jp.tdk.com