

Power Supply Product

95% Efficient 960W DIN Rail Power Supply has a 1440W Peak Power Capability

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TDK Corporation (TSE 6762) announces the introduction of a 960W rated model to the DRF series of AC-DC DIN rail mount power supplies. The high 95% efficiency produces less internal waste heat enabling electrolytic capacitors to run cooler, providing a calculated life of in excess of eleven years with a 75% load at 230Vac input. The unit can supply a peak load of 1440W (24V 60A) for up to 4 seconds to power capacitive and inductive loads. Applications include industrial process control, factory automation, and test and measurement equipment.

The power supply has a 24V output, adjustable from 24V to 28V, using either the front panel mounted trim potentiometer or an external 5 to 6V source. The input range is 180 to 264Vac, withstanding surges of up to 300Vac for 5 seconds. The operating ambient temperature is -25°C to +70°C, -40°C cold start, derating linearly above 50°C to 75% load at 70°C. The DRF series warranty is five years.

The DRF960-24-1 is 123.4mm tall, 139mm deep and has a narrow 110mm width saving both space on the rail and in the cabinet. Remote on/off and a 30V 1A rated DC OK relay contact are provided as standard. When in standby mode using the remote on/off function, the power consumption is less than 1W. Up to five units can be connected in parallel using the droop mode current share, for systems requiring additional power.

Input to output isolation is 3,000Vac, input to ground 1500Vac and output to ground 500Vac. The DRF960 is certified to the safety standards of IEC/UL/CSA/EN 60950-1, UL508 and is CE marked in accordance to the Low Voltage, EMC and RoHS Directives. The unit is compliant to EN 55032-B (radiated and conducted emissions), EN 61000-3-2 harmonics and IEC 61000-4 immunity standards.

More information can be obtained at the following TDK-Lambda Americas webpage, <https://us.tdk-lambda.com/lp/products/drf-series.htm>, or by calling 800-LAMBDA-4. Product availability for all the DRF DIN rail power supplies can be found via the link to TDK-Lambda's distributor network (see "Check Distributor Stock") at <https://www.us.tdk-lambda.com/lp/>.

Major applications

Industrial process control, factory automation and test & measurement equipment.

Main features and benefits

- Up to 95% efficient with <1W standby power consumption
- Compact size taking up less space on the DIN rail and in the cabinet
- Isolated DC OK signal, remote on/off, voltage programming and droop mode current share.
- Long service life (conservative electrolytic capacitor ratings)

Major specifications

Model		DRF960-24-1
Input voltage range	Vac	180 – 264Vac (300Vac for up to 5s)
Output voltage	Vdc	24V (adjustable from 24 to 28V)
Output power	W	960W (1440W peak for 5s)
Safety Certifications	-	IEC/UL/CSA/EN 60950-1 and UL 508
Size (W x H x D)	mm	110 x 123.4 x 139 mm
Warranty	years	Five years

About TDK Corporation

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio features passive components such as ceramic, aluminium electrolytic and film capacitors, and 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 the areas of information and communication technology and automotive, industrial and consumer electronics. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2018, TDK posted total sales of USD 12 billion and employed about 103,000 people worldwide.

About TDK-Lambda Corporation

TDK-Lambda Corporation, a group company of TDK Corporation, is a leading global power supply company providing highly reliable power supplies for industrial equipment worldwide. TDK-Lambda Corporation meets the various needs of customers with our entire range of activities, from research and development through to manufacturing, sales, and service with bases in five key areas, covering Japan, Europe, America, China, and Asia.

For more details, please pay a visit to <http://www.tdk-lambda.com/>

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