

Power Supply Product

24V DIN rail power supply is certified to Class II and Class 2 standards

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TDK Corporation (TSE 6762) announces the introduction of an 88W rated 24V model to the DRL series of low profile AC-DC DIN rail mount power supplies. The DRL100-24-1/C2 is certified as a Class 2 power supply, in accordance with NEC (per UL1310), and as a Limited Power Source (per UL 60950 clause 2.5 requirements). The unit is also has a Class II construction with double insulation for operation without an earth ground connection. Applications include building automation, security systems, industrial process control, factory automation, and test and measurement equipment.

The DRL100-24-1/C2 is housed in a rugged plastic enclosure, with overall dimensions of 72mm x 91mm x 55.6mm (W x H x D). The input range is 85 to 264Vac, withstanding surges of up to 300Vac for 5 seconds. The input to output isolation is 3,000Vac. The operating ambient temperature is -20°C to +71°C, -25°C cold start, derating linearly above 40°C to 40% load at 71°C. Off-load power consumption is <0.5W and the full load efficiency is 90% with a 230Vac input.

All models in the DRL series are certified to the safety standards of IEC/UL/CSA/EN 60950-1, UL508 and are CE marked in accordance to the Low Voltage, EMC and RoHS Directives. The series is compliant to EN 55032-B (radiated), EN55032-A (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/drl-series.htm>, or by calling 800-LAMBDA-4. Product availability for all the DRL 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

Building automation, security systems, industrial process control, factory automation, and test and measurement equipment.

Main features and benefits

- Low 55.6mm profile
- Class II double insulated construction
- Class 2 to UL 1310
- <0.5W off-load power consumption

Major specifications

| Model | | DRL100-24-1/C2 |
|----------------------------|-----|---|
| Input voltage range | Vac | 85 – 264Vac (300Vac for up to 5s) |
| Output voltage | Vdc | 24V |
| Output power | W | 88W |
| Safety Certifications | - | IEC/UL/CSA/EN 60950-1, UL 508 and UL 1310 (Class 2) |
| Off-load power consumption | W | Less than 0.5W |
| Size (W x H x D) | mm | 72 x 91 x 55.6 mm |

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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