

## Power Supply Product

# Low Profile Power Supplies Require Less Space on DIN Rail

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December 2016

TDK Corporation announces the introduction of the TDK-Lambda brand DRL AC-DC DIN Rail mount power supplies. With efficiencies of up to 90%, waste heat has been reduced, allowing the use of very narrow width package sizes ranging from 18mm for the 10W, to 72mm for the 100W model. Less space on the rail provides additional room for other components or the use of smaller enclosures. The DRL series is suitable for a wide range of industrial applications including building and factory automation, security, process control and test and measurement.

The DRL series has an operating input range of 85 to 264Vac, and can withstand 300Vac for 5 seconds. The units have a Class II construction (double insulation) and do not require an earth ground connection. Input to output isolation is 3,000Vac. Four power levels and case sizes are offered - 10W, 30W, 60W and 100W – with a 24V output in all package sizes and a 12V output for the 10 to 60W versions. The 30 to 100W models have user adjustable outputs from either 12V to 15V or 24V to 28V.

The convection cooled units can operate in ambient temperatures from -20 to +71°C with derating applying at high temperatures. The DRLs are housed in a robust plastic case and share a common depth of 55.6mm and a height of 91mm. The 10 and 30W have an off-load power draw of <0.3W with the 60 and 100W at <0.5W.

All models certified to UL/CSA 60950-1, IEC/EN 60950-1 and UL 508 with CE marking for the Low Voltage, EMC and RoHS2 Directives. Select models also comply with NEC Class 2 in accordance with UL 1310. All units meet EN55011/EN55022-B conducted emissions (Class A radiated) and comply with IEC 61000-3-2 harmonics and IEC 61000-4 immunity standards.

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

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### Major applications

Building and factory automation, security, process control, test and measurement equipment

## Main features and benefits

- Very narrow width
- Class II double insulated
- Class 2 operation in accordance with UL1310 (select models)
- Low off-load power consumption

## Major specifications

Model		DRL10	DRL30	DRL60	DRL100
Input voltage range	Vac	85 – 264 (Withstands 300Vac for 5 seconds)			
Output voltages	Vdc	12 & 24	12 & 24	12 & 24	24
Output adjustment	Vdc	-	12-15, 24-28	12-15, 24-28	12-15, 24-28
Maximum output power	W	10	30	60	100
Efficiency	%	Up to 90%			
Off-load power	W	<0.3		<0.5	
Safety certifications	-	IEC / UL / CSA / EN 60950-1, UL 508, Tested to UL 1310			
Size (W x H x D)	mm	18 x 91 x 55.6	36 x 91 x 55.6	54 x 91 x 55.6	72 x 91 x 55.6
Warranty	-	Three years			

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## 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 includes electronic components, modules and systems\* marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial 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 2016, TDK posted total sales of USD 10.2 billion and employed about 92,000 people worldwide.

\* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

## 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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