

Power Supply Product

Low Loss 20A to 40A DIN Rail Mount Redundancy Module Assists Load Current Balancing

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TDK Corporation (TSE 6762) announces the introduction of the DRM40 series DIN rail mount redundancy modules. The two 20A 10V to 30Vdc rated inputs can be connected to provide a 20A redundant configuration, or using the load balancing option, to deliver a 40A output. For capacitive and inductive loads, the DRM40 will support an additional 50% peak load for four seconds. The use of low-loss MOSFET reverse current protection devices reduces the internal voltage drop to just 200mV. Applications include industrial process control, factory automation, battery chargers, and test and measurement equipment.

If the input currents are unbalanced, the DRM40 front panel mounted LED is off. When the input voltages are adjusted and the load current is shared equally, the LED is illuminated. In addition, the DRM40 has two isolated DC Good PhotoMOS relays to indicate that each input voltage is between the limits of 10V and 30V. Two front panel mount DC Good LEDs provide visual indication. For cost sensitive applications the DRM40B has identical electrical performance without the current balance and DC Good functions.

The DRM40 series is housed in a compact rugged metal enclosure, with overall dimensions of 35mm x 124mm x 125mm (W x H x D) and is suitable for mounting on TS-35/7.5 and TS-35/15 DIN rails. The operating ambient temperature is -40°C to +70°C with no derating. Both models are safety certified to IEC/EN/UL/CSA 60950-1, IEC/EN/UL/CSA 62368-1, UL 508 and are CE marked for the Low Voltage, EMC and RoHS Directives.

More information can be obtained at the following TDK-Lambda Americas webpage, <https://us.tdk-lambda.com/lp/products/drm-series.htm>, or by calling 800-LAMBDA-4. Product availability for the DRM40 DIN rail modules 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, battery chargers, and test and measurement equipment.

Main features and benefits

- Low 200mV Voltage Drop
- Current Balance Indicator Option
- Isolated Alarm Signaling Option
- 50% Peak Current Rating

Major specifications

Model		DRM40	DRM40B
Input voltage range	Vdc	10 to 30Vdc	
Input current (Maximum)	A	Two x 20A (30A peak)	
Output current (Maximum)	W	One x 40A (60A peak)	
Internal voltage drop	mV	Less than 200mV at 40A	
Current balancing	-	Yes	No
Alarm signaling		Yes	No
Safety certifications	-	IEC/EN/UL60950-1, IEC/EN/UL62368-1, UL508	
Size (W x H x D)	mm	35 x 124 x 125mm	

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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