

Power Supply Product

Wide input and output range convection cooled DIN rail mount DC-DC converters deliver up to 250W per output

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TDK Corporation (TSE 6762) announces the introduction of the TDK-Lambda brand DIN rail mount DDA DC-DC converters. The series uses step-down non-isolated power modules that operate from an input range of 9 up to 53Vdc, with a wide adjustable output voltage range of 3.3 up to 24V. The DDA is ideally suited for generating additional low cost, high current outputs from an existing 24V bus in industrial, semi fabrication and test and measurement equipment.

Three models are available in the DDA series. A single nominal output +12V 20A, a dual output +12V 20A / +5V 20A and a dual output +12V 14A / -12V 8A. Output power is typically 250W for each of the positive outputs and 75W for the negative output. Convection cooled the overall output power is 250W, which can be increased to up to 500W with forced air cooling.

Positive remote sense, remote on/off and individual power good signals are fitted as standard. The DDA series is highly efficient, up to 95%, reducing internal waste heat for reliable operation. The models are 123.4mm high, 115mm deep and have a very narrow 36.5mm width, providing additional space on the DIN rail.

Safety certifications include IEC/EN/UL 62368-1 with CE marking for the Low Voltage, EMC and RoHS Directives. The units also comply with EN 55032-A conducted and radiated emissions and meet the EN 61000-4 conducted, radiated and magnetic field immunity standards.

More information can be obtained at the following TDK-Lambda Americas website, <https://www.us.tdk-lambda.com/lp/products/dda-series.htm>, or by calling 800-LAMBDA-4. Product availability for the DDA DC-DC converters 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, semiconductor fabrication and test and measurement.

Main features and benefits

- Provides additional low cost, lower output system voltages
- Wide input range, 9 up to 53V
- Wide output adjustment from 3.3 up to 24V
- Narrow 36.5mm width
- Convection and forced air cooling ratings

Major specifications

Model		DDA250N	DDA325N	DDA500N
Input voltage range	Vdc	9 – 53	9 – 40	9 – 53
Output voltage 1	Vdc	+3.3 to 15	+3.3 to 24	+3.3 to 15
Output voltage 2		-	-3.3 to -24	+3.3 to 15
Maximum output power	W	250	250 / 75	250 / 250
Efficiency	%	92 - 95	88 - 94	92 - 95
Other features	-	Positive remote sense, remote on/off, power good signal (for each output)		
Safety Certifications	-	IEC/EN/UL 62368-1		
Size (W x H x D)	mm	36.5 x 123.4 x 115		
Warranty	-	Three 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 2019, TDK posted total sales of USD 12.5 billion and employed about 105,000 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 <https://www.tdk-lambda.com/>

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